
HMV categorisation of defects

These guides cover a considerable number of defects and situations that are dealt with by police officers and vehicle safety officers who hold a certificate to carry out level 3 and level 5 inspections, CVIU Vehicle Safety Officers and NZ Transport Agency Transport Officers. They contain a set of national enforcement standards designed to ensure that heavy vehicle defects are dealt with uniformly throughout the country.



OUR PURPOSE

CREATING TRANSPORT SOLUTIONS FOR A THRIVING NEW ZEALAND



NZ Transport Agency (NZTA)

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This publication is also available on
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Safer Journeys

The NZTA is part of, and contributes to, the Safer Journeys programme.

Safer Journeys is the government's strategy to guide improvements in road safety over the period 2010-2020. The strategy's vision is a safe road system increasingly free of death and serious injury. It is a co-ordinated effort across partner agencies to improve each aspect of road safety – better behaviors, a safer road environment, safer speeds and higher vehicle standards.

For more information visit www.transport.govt.nz/saferjourneys

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INTRODUCTION

This Categorisation of Defects is a guide designed to aid New Zealand Police, the NZ Transport Agency, transport operators and drivers in the inspection of heavy motor vehicles.

The guide covers many vehicle related defect descriptions and situations that could be encountered by qualified Police Officers, CVIU Vehicle Safety Officers or NZTA Transport Officers during an inspection. It is designed to provide an inspection process and give guidance so that any enforcement action is dealt with in a fair and reasonable manner consistently throughout New Zealand. It also ensures that any resulting event is recorded in the Operator Rating System (ORS) – a system that encourages transport operators to make their vehicles and driving practices as safe as possible, and to comply with their regulatory obligations that contribute to safety - is also fair and reasonable.

The defects are categorised and colour coded to represent the risk value of each defect. They are also assigned a four character code that is recorded into the Roadside Inspection Database (RID).

It is important to understand that this guide outlines the maximum risk value that a particular defect has at the time the vehicle is stopped and inspected. It is this value that is used for recording into the RID, and subsequently part of the overall rating the operator will receive under the ORS.

All enforcement officers have the discretion to lower any recommended action based on the situation that exists at the time the vehicle is inspected. This discretion may include allowing the repair of the defect at the roadside or allowing the vehicle to continue to be used until the defect is repaired. However, in cases of serious risk, consideration will be given to removing the vehicle from service.

The defects contained in this guide are not exhaustive therefore during an inspection, other defects may be detected that are not coded in this guide and enforcement action may be taken. However, these defects will not be recorded in RID. The inspecting officer has the option of using section 115 of the Land Transport Act 1998 to determine if the vehicle needs to be placed out of service.

Any enforcement action taken from this guide does not preclude the issue of an offence notice.

If you are unsure about anything contained in this guide or you have any suggestions regarding the content of the guide, please contact your supervisor. The guide will be amended from time to time and published on both NZTA and Police websites.

This guide is a joint production between the NZTA and NZ Police. The preparation of this guide has involved consultation with transport industry organisations, the Road Transport Forum, the New Zealand Heavy Haulage Association and the Bus and Coach Association. Their participation and input is gratefully acknowledged.

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HOW DOES THIS GUIDE WORK?

Section 115 of the Land Transport Act 1998 empowers Enforcement Officers to direct that an unsafe or defective vehicle must not be used on a road.

This guide identifies various categories of vehicle related defects and compliance issues.

There are two (2) levels of inspection and three (3) levels of risk/action allocated to a defect or issue. Any defect found during a roadside inspection may require immediate attention or may even place a vehicle out of service until it is fully repaired.

THE TWO LEVELS OF INSPECTION DETAILED IN THE GUIDE

1. LEVEL 3 INSPECTION (WALK AROUND/ PRE-DRIVE INSPECTION)

The Level 3 inspection is based on what is expected from a driver/operator before any heavy motor vehicle is used on our roads. The defects contained in each section of the guide are those that can be identified during a visual walk around of the vehicle and its load. Checks and tests are those that can be done without hand tools and for Police CVIU staff is only undertaken by qualified officers.

EACH INSPECTION WILL CONSIST OF:

THE DRIVER/OPERATOR COMPLIANCE

Driver impairment (alcohol and/or drugs), driver licence status, work-time and logbook requirements, driver behaviour, Transport Service Licence (TSL) details and seat belt usage.

VEHICLE SAFETY COMPLIANCE

Evidence that the vehicle inspection certificate of fitness (CoF) is current and any load carried is secure.

ROAD USER CHARGES (RUC) COMPLIANCE

The RUC licence displayed is appropriate for the vehicle and is current; a distance recorder is fitted to the vehicle and is functioning correctly.

VEHICLE DEFECTS AND COMPLIANCE

The vehicle(s) is inspected for any defects or compliance issues as required by the Land Transport Act 1998 (LTA) and various other land transport related rules and regulations including Land Transport Rules. Inspections will be done using visual aids only and with no hand tools. However some testing and inspection of mechanical components can be done with specialised measuring equipment. This includes but is not limited to: ring feeder gauge, J hook gauge, laser temp detector, chain gauge, height stick, tape measure, tyre pressure gauge.

This guide is used to categorise and code the defect for inclusion in the Roadside Inspection Database (RID). It also provides the enforcement officer with an indication of the maximum risk the defect poses and the recommended enforcement action. The officer may elect to reduce the enforcement action and may impose restrictions on the vehicle's use until the defects are rectified.

A Commercial Vehicle Inspection Report (CVIR) must be completed for each and every vehicle stopped and inspected. Level 3 inspections are expected to be the minimum inspection carried out during a CVIU stop and they may also coincide with level 4, 5, 6 or 7 inspections (see other inspections section).

2. LEVEL 5 INSPECTION (FULL VEHICLE INSPECTION)

A level 5 inspection is a full vehicle safety and compliance inspection conducted by a CVIU Vehicle Safety Officer or an NZTA Transport Officer. Minor hand tools and specialised testing equipment may be used, however, **level 5 inspections are not CoF inspections.**

This guide is used to categorise and code the defect for inclusion in RID. It also provides the enforcement officer with an indication of the maximum risk the defect poses and the recommended enforcement action. The officer may elect to reduce the enforcement action and may impose restrictions on the vehicle until the defects are repaired.

A CVIR must be completed for each and every vehicle stopped and inspected. Level 5 inspections may also coincide with level 3, 4, 6 or 7 inspections.

In some situations, when carrying out level 3 or level 5 inspections, a defect may be identified on the vehicle or with its equipment that is not categorised in this guide. The defect does not get entered on to the CVIR or entered into RID. The officer has the option of using section 115 of the LTA to determine if the vehicle needs to be placed out of service and/or whether an offence notice is issued.

NOTE FOR COMBINATION VEHICLES

Any faults or defects found on any trailer in a combination set will be assigned to the TSL number of the towing vehicle and entered into RID accordingly.

THE THREE LEVELS OF RISK AND RECOMMENDED ENFORCEMENT ACTION

1. **Pink** colour coding signifies a safety related defect and may result in an out of service order and pink sticker (unsafe vehicle) being issued. If a pink sticker is issued the defect is to be remedied immediately, alternatively the vehicle may have conditions placed on the notice that must be complied with until repairs can be affected. The vehicle requires a new CoF to be issued before it can be used on a road.

2. **Dark green** colour coding signifies a compliance related defect and may result in an out of service order and green sticker (defective vehicle) being issued. If a green sticker is issued the defect is to be remedied immediately, alternatively the vehicle may have conditions placed on the notice that must be complied with until repairs can be affected. The vehicle requires a new CoF to be issued before it can be used on a road.

3. **Light green** colour coding signifies a minor defect that can be remedied without the need for a new CoF to be issued. These are known as G2 defects. Legislation allows an enforcement officer to issue a G2 notice which carries a formal instruction to repair or rectify the defect(s) within 7 days. **A new CoF is not required if a G2 notice is issued.** However the operator must provide to CVIU or NZTA via email or fax, evidence that the defect(s) have been rectified and giving details of who carried out the repairs. The G2 notice will be attached to the inspection report and gives both CVIU and NZTA contact details.

Any enforcement action taken from this guide does not preclude the issue of an offence notice.

These levels of risk and recommended enforcement action for defects at the roadside have an impact on the Operator Rating System (ORS).

Unsafe or pink sticker components have a high bearing on safety and so carry a high RID score. Defective or green sticker components have a moderate bearing on safety and so carry a medium RID score. Components that are non-compliant but not unsafe, and have a recommended action of 'Green 2 (ordered to comply)' have a minor bearing on safety and score the lowest in RID.

The criteria detailed in this guide is designed to assist consistency in assessing if a heavy motor vehicle is safe to continue after a level 3 (visual walk-around) or level 5 (comprehensive) inspection. The pass/fail criteria may differ from that applied at a vehicle testing station when certificate of fitness inspection (CoF) is carried out.

Failure to comply with the instruction on an out of service order or G2 notice to repair or rectify the defect(s), and/or not to notify CVIU or the NZTA that the vehicle has been repaired, may result in prosecution or some other follow up action.

Any enforcement action taken from this guide does not preclude the issuing of an offence notice.

RECTIFYING FAULTS AT THE ROADSIDE

As an alternative to an out-of-service order, an Enforcement Officer may allow the vehicle to be repaired at the roadside depending on the defect and the environment or situation. The aim of this is to allow defects to be rectified safely at the roadside without risk to the operator or other road users. Consequently the requirement to obtain a new CoF is avoided as the risk has been eliminated and the vehicle returned to full compliance.

THE 2 ALTERNATIVE ACTIONS

1. Qualify Pink (QP)

The defect found makes the vehicle unsafe, eg the brake lights are not working, the driver finds a faulty connection and fixes it. The PINK defect is no longer there, the vehicle can continue and it does not need a new CoF.

2. Qualify Green (QG)

The defect found makes the vehicle defective, eg the L/R wheel has a missing stud/nut, the driver carries a spare and fits it. The GREEN defect is no longer there, the vehicle can continue and it does not need a new CoF.

It must be stressed that the RID requirements for QP or QG roadside repairs dictates that the initial sanction of a pink or green defect must be recorded as it was found during the inspection, therefore it is that code that will be recorded into RID. **QP and QG only avoid the need for a new CoF.**

A partial repair at the roadside can only reduce the following enforcement action. Example, the brake lights are not working, the defect is a pink sanction and will be recorded in RID. The driver can only repair the RHS brake light, by effecting a partial repair the vehicle will now qualify for a lesser enforcement action (QP). The officer may then allow the vehicle to proceed with a direction to repair (G2), avoiding a new CoF.

In a case where the defect cannot be rectified at the roadside, then the appropriate notice and/or sticker will be issued to the vehicle, and any terms or conditions on the notice will take effect.

DISCRETIONARY EQUIPMENT

During any roadside inspection some equipment may be necessary to identify the degree of risk a defect poses, the equipment could include the following:

- Checking of towing connections with the appropriate equipment (go/no-go gauge) is discretionary. However, an enforcement officer may direct the driver to disconnect the trailer for inspection of the coupling. After the inspection is made, it is the responsibility of the driver to make sure a safe re-coupling is made before moving off.
- Use of a mobile roller brake machine for assessing brake performance is discretionary. If it is decided to carry out this test, then the procedure set down in the *CVIU Standard Operating Procedure: Brake Performance Testing* must be adhered to.
- Use of the 'heat gun' for assessing brake drum temperatures is discretionary. If it is decided to carry out this check, then the procedure set down in the *CVIU Standard Operating Procedure: Brake Imbalance Testing* must be adhered to.

OTHER INSPECTIONS CARRIED OUT AT ROADSIDE

NZ Police CVIU and NZTA officers may conduct other inspections deemed appropriate for the situation or circumstance. Where possible the driver will be advised prior to an inspection what is required of him/her and at what level the inspection will be, eg for a level 4 dangerous goods inspection, the driver will be asked to provide the required documentation and allow the load to be inspected for compliance with the Land Transport Rule: Dangerous Goods 2005.

An explanation of the other levels of inspection is given below.

LEVEL 2 INSPECTION

A level 2 inspection is carried out where the vehicle is a light diesel vehicle 3500kgs or less and not used in a transport service or if the vehicle is a heavy motor vehicle that displays a current CVIU passed inspection sticker. The following matters will be inspected:

THE DRIVER/OPERATOR COMPLIANCE

Driver impairment (alcohol and/or drugs), driver licence status, worktime and logbook requirements, driver behaviour, Transport Service Licence details and seat belt usage.

VEHICLE SAFETY COMPLIANCE

Evidence that the certificate of fitness is current and any load carried is secure.

ROAD USER CHARGES COMPLIANCE

The Road User Charges licence displayed is appropriate for the vehicle and is current, and a distance recorder is fitted to the vehicle and is functioning correctly.

LEVEL 4 INSPECTION

A Level 4 inspection is carried out by a member of the CVIU appointed as a Dangerous Goods Enforcement Officer and will consist of a Level 2 inspection as well as an assessment of compliance relative to the Land Transport Rule: Dangerous Goods 2005. Level 4 inspections may coincide with any other level of inspection.

LEVEL 6 INSPECTION

A level 6 inspection is a mobile roller brake test conducted by a CVIU Vehicle Safety Officer or NZTA Transport Officer. Level 6 inspections may coincide with any other level of inspection.

LEVEL 7 INSPECTION

A level 7 inspection is a vehicle emission check for excessive exhaust smoke and/or noise in accordance with the Land Transport Rule: Vehicle Emissions 2006.

Note that excessive smoke checks are to be conducted following the 10 second procedure. Level 7 inspections may coincide with any other level of inspection.

SUMMARY OF INSPECTION TYPES

INSPECTION LEVEL	DESCRIPTION
2	Light diesel vehicle under 3500kgs and not used in a transport service or if the vehicle is a heavy motor vehicle that displays a current CVIU passed inspection sticker.
3	Walk around inspection based on what is expected from a driver/operator before any heavy motor vehicle is used on our roads.
4	Dangerous goods inspection.
5	Full vehicle safety and compliance inspection conducted.
6	A mobile roller brake test.
7	Vehicle emission check for excessive exhaust smoke and/or noise in accordance with the Land Transport Rule: Vehicle Emissions 2006.

ROADSIDE INSPECTIONS: DISCLAIMER

Due to the limited nature of roadside inspections there may be faults or defects present in the vehicle apart from those listed on an inspection report. The NZ Police and the NZ Transport Agency do not accept any liability for any fault or defect not detected by their officers. If further faults or defects are identified at any subsequent inspection, then they must be rectified before the vehicle is returned to service. Any questions about an inspection should be directed to the address indicated on the commercial vehicle inspection report (CVIR).

NOTE: A roadside inspection at level 3 or level 5 is not as thorough or extensive as a certificate of fitness (CoF) inspection. It must not be considered as a de facto CoF inspection. On rare occasions it is possible an officer may cite a component defect that, upon subsequent detailed inspection by a CoF inspector is considered to still be within a safe tolerance. Procedures for removing the RID score from the operator's Operator Rating System record are covered in the Disputes Resolution Process for roadside inspections available from both the NZTA and Police websites and in the back of this guide.

LEVEL 3

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
CAB LEVEL 3						
3	EC01	Cab	Corrosion hole in pillars	Corrosion which has resulted in a hole >50mm in the cab pillars or is within 150mm of the top of the A-pillar.	Green	Requires certification (LT400).
3	EC02	Cab	Corrosion hole around door hinges	Corrosion which has resulted in a hole >50mm around the cab door hinges.	Green	Requires certification (LT400).
3	EC03	Cab	Corrosion in the cab	Corrosion that has resulted in a hole greater than 50mm in any other part of the cab.	Green	Requires certification (LT400).
3	ED01	Cab	No ready means of entrance and exit	There is no ready means of entrance and exit for vehicle occupants.	Pink	
3	ED02	Cab	Door damaged/deteriorated or not securely fitted/retention system missing - detachment imminent	A door is not securely fitted by way of an appropriate door retention system, or any part of a door retention system is missing or the door is significantly damaged or deteriorated. Detachment is imminent or there is a significant risk of the door operating inadvertently.	Pink	
3	ED03	Cab	Door damaged/deteriorated or not securely fitted/retention system missing - detachment is not imminent	A door is not securely fitted by way of an appropriate door retention system, or any part of a door retention system is missing or the door is damaged or deteriorated. Detachment is not imminent and there is no significant risk of the door operating inadvertently.	Green 2	
3	ED04	Cab	Door cannot be opened, cannot be closed or does not stay closed	A door cannot be opened from the inside, cannot be closed, or does not stay closed when shut.	Pink	Except if fitted with a child safety lock and the child safety lock is activated, and for vehicles used to carry legally detained persons.
3	ED05	Cab	Door cannot be operated easily - excessive force required	Operation of the door requires excessive force.	Green 2	
3	IS04	Cab	Drivers seat damaged, loose or excessively worn	A seat is not securely fitted to the vehicle; detachment is not imminent but the seat structure or mounting points are weakened through damage or deterioration.	Green 2	
3	PS01	Cab	Seat belt damaged/worn occupied seat	Seat belts are fitted and/or the seat belt anchorages are damaged or worn so they do not function correctly or are unsafe. Driver's seat or an occupied passenger seat.	Green	Requires certification (LT400).
3	PS02	Cab	Seat belt damaged/worn unoccupied seat	Seat belt and/or the seat belt anchorages for passenger are damaged or worn but the seat is not occupied.	Green 2	
3	PS03	Cab	Seat belt not fitted	Seat belt(s) are required but not fitted to a vehicle manufactured or first registered in NZ after 1 October 2003.	Green	
3	PS06	Cab	Brake pedal rubber ineffective	Brake pedal rubbers are missing or worn.	Green 2	
3	MEL1	Cab	Exhaust system leaks fumes into the cab or passenger compartment	An exhaust system does not comply with applicable requirements because it leaks fumes into the cab or passenger compartment and is unsafe.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
PSV CAB LEVEL 3						
3	ED09	PSV only cab defects	PSV no door on LHS	A PSV is not provided with a doorway on the left hand side of the vehicle.	Pink	Does not apply to outdoor access vehicles and vehicles fitted with special features for the disabled.
3	ED11	PSV only cab defects	Doorway obstructed/<550mm wide	A doorway is obstructed or<550mm.	Green 2	Obstruction must be removed.
3	ED12	PSV only cab defects	Door locks automatically	A door locks automatically when it closes - or vehicle is moving.	Pink	
3	ED14	PSV only cab defects	Door open warning device not fitted/not operational	A device warning the driver if a door (other than a door alongside the driver) is not properly closed is not fitted or not operational.	Green 2	Except if fitted with a child safety lock and the child safety lock is activated, and for vehicles used to carry legally detained persons.
3	ED15	PSV only cab defects	Emergency door controls not operational	Inside or outside emergency door controls are not operational.	Pink	Applies to vehicles that entered service as PSVs on or after 1 July 2000.
3	IE04	PSV only cab defects	Aisle steps, ramps, landings or handrails faulty	Aisle steps, ramps, landings or handrails are faulty or loose.	Green 2	
3	IE05	PSV only cab defects	Insufficient number of emergency exits	A vehicle does not have the required number of emergency exits.	Pink	
3	IE06	PSV only cab defects	Emergency exit not readily accessible	An emergency exit is not readily accessible.	Green	
3	IE11	PSV only cab defects	Locking emergency exit - no warning device	A dedicated emergency exit equipped with locks does not have a device fitted warning the driver that the exit is locked when the vehicle's engine is running.	Pink	
3	IE13	PSV only cab defects	Emergency exit window has no special-purpose hammer fitted	A dedicated emergency exit window intended to be broken in an emergency does not have a special-purpose device fitted on or near to the window.	Pink	
3	IE14	PSV only cab defects	Emergency exit window special-purpose hammer(s) missing	Dedicated emergency exit windows intended to be broken in an emergency are missing some special-purpose hammers.	Green 2	
3	IE15	PSV only cab defects	A required emergency exit window special-purpose hammer tampering alarm not fitted/not operational	An alarm warning the driver of any tampering with the emergency exit window special-purpose hammer is not fitted or not operational.	Green 2	Not required for button type hammers.
3	IE16	PSV only cab defects	Emergency exit window special-purpose hammer operating instructions missing	Instructions relating to the operation of the dedicated emergency exit window special-purpose hammers are not fitted.	Green	
3	IF01	PSV only cab defects	Large PSV - fire extinguisher not fitted/not operational	A PSV with more than 12 seating positions is not fitted with a fire extinguisher, or a fitted fire extinguisher is not operational.	Green	A fire extinguisher is required for each compartment of more than 12 passengers. Double-decker buses and articulated buses comprise two compartments and therefore require at least two fire extinguishers, at least one in each compartment.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	IF02	PSV only cab defects	Fire extinguisher not fitted near the driver or not clearly visible	A required fire extinguisher is not fitted near the driver or is not clearly visible to passengers or does not have sufficient clear signage directing passengers to it.	Green 2	
3	IEY1	PSV only cab defects	Emergency exit signage incomplete or insufficient	The emergency exit signage does not meet requirements and is too small, incorrect colour or incomplete.	Green 2	

VISION LEVEL 3

3	EM01	Vision	RHS rear vision mirror not usable or a required RV mirror is not fitted	Right-hand side rear vision mirror is missing or mirror glass is broken or otherwise damaged.	Green 2	
3	EM03	Vision	LHS rear vision mirror damaged	Left-hand side rear vision mirror is cracked, damaged or insecure, which reduces the driver's vision through the mirror and is not on a PSV.	Green 2	
3	II01	Vision	A required OE wiper is not fitted or operational (in rain)	An original equipment (OE) windscreen wiper is not fitted on a vehicle required to be fitted with a windscreen wipe system or a fitted windscreen wiper is not operational or only works intermittently. The vehicle is operated in rain with no wiper fitted to clear the windscreen in front of the driver.	Pink	Must be capable of keeping an adequate area of the windscreen clean and clear for vehicle's safe operation.
3	II02	Vision	A required OE wiper not fitted or operational (no rain)	An original equipment (OE) windscreen wiper is not fitted on a vehicle required to be fitted with a windscreen wipe system or a fitted windscreen wiper is not operational or only works intermittently. The vehicle is operated when not raining, with no wiper fitted to clear the windscreen in front of the driver.	Green 2	
3	II09	Vision	Wiper not securely fitted (loose) (detachment not imminent)	A windscreen wiper is not securely fitted. The vehicle is not operated in rain and detachment of the wiper is not imminent.	Green 2	
3	II14	Vision	Wiper not working	Windscreen wiper is missing or not working. Applies to driver's side wiper when not raining or other wiper where driver's vision is not impaired.	Green 2	
3	IM01	Vision	Required rear-view mirror not fitted	A required rear-view mirror is not fitted.	Green	
3	IM02	Vision	Rear-view mirror does not provide driver with adequate view to rear of vehicle/ load/trailer or is not adjustable	A rear-view mirror does not provide the driver with an adequate and clear view to the rear of the vehicle and, if applicable, its load and any trailer and its load or is not adjustable or does not maintain its adjustment.	Green 2	
3	IV01	Vision	Required sun visor not fitted	A required sun visor is not fitted, not operational or "effective" or is not securely fitted and detachment is imminent.	Green	
3	IV04	Vision	Sun visor not securely fitted, detachment not imminent	A sun visor cannot be adjusted from the driver's seat, is not securely fitted but detachment is not imminent or is in a position that partially or fully impedes the driver's vision and cannot be rectified immediately by the driver if requested to do so.	Green 2	
3	IW04	Vision	Windscreen/front side window obstructed - driver's vision significantly impaired.	A windscreen/front side window is obstructed. Driver's vision significantly impaired.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	IW05	Vision	Windscreen/front side window obstructed – driver’s vision not significantly impaired	A windscreen/front side window is obstructed. Driver’s vision not significantly impaired.	Green 2	
3	IW07	Vision	Wire mesh windscreen guard does not comply	A wire mesh windscreen stone guard extends higher than the top of the steering wheel and is more than 225mm above the bottom of the windscreen, its mesh size is less than 12mm, or there is no space between the stone guard and the windscreen.	Green 2	
3	IW08	Vision	Overlay applied along lower windscreen above highest point of the steering wheel	An overlay is applied along lower edge of windscreen above the highest point of the steering wheel in the uppermost position.	Green 2	
3	IW09	Vision	W/screen sticker or overlay or mesh reduces driver’s vision	Windscreen has a sticker or overlay, mesh or stone guard, which, due to its dark colour, pattern or other reasons, noticeably reduces the driver’s vision.	Green	
3	IW10	Vision	W/screen sticker or overlay vision not impaired.	Windscreen has a sticker or overlay that is more than 100mm wide measured from the side edge, an anti-glare band that is more than 200mm wide measured from the top edge of the windscreen, or a plastic stone guard overlay that is higher than the highest point of the steering wheel. Driver’s vision not significantly impaired. Refer to Appendices.	Green 2	
3	IW11	Vision	W/screen damage impairs driver’s vision	Windscreen damage or repairs impairs the driver’s vision due to the position and size of the defect, only within the CVA (Critical Vision Area).	Pink	
3	IW12	Vision	W/screen damage not impairing driver’s vision	Windscreen has significant damage not more than 500mm long, side to side crack, bullseye or other concentrated damage with a diameter more than 100mm, etc but it does not impair the driver’s vision due to the location of the damage which may include minor CVA damage.	Green 2	
3	IW13	Vision	W/screen insecure for >1/3 circumference	Windscreen is insecure either due to major deterioration, loss of its rubber bedding or the bonding material or a major corrosion of the windscreen frame that extends to more than 1/3 of the windscreen circumference.	Green	
3	IW14	Vision	W/screen insecure for <1/3 circumference	Windscreen is insecure either due to major deterioration or loss of its rubber bedding or the bonding material, or a major corrosion of the windscreen frame that extends to less than 1/3 of the windscreen circumference.	Green 2	

VISION PSV ONLY LEVEL 3

3	EM05	PSV only vision defects	PSV with more than 1 LHS door and no mirror or not usable	PSV left-hand side rear view mirror not fitted when passengers are carried on a school bus/city bus with more than one left entrance/exit door, or is missing, or mirror glass is completely broken or otherwise damaged, therefore the driver cannot use it.	Pink	
3	EM08	PSV only vision defects	PSV LHS rear vision cracked or damaged	External left hand side rear vision mirror cracked or damaged but still usable.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	IM07	PSV only vision defects	PSV internal rear vision mirror is insecure	PSV internal rear vision mirror that is fitted and is insecure.	Green 2	

SPEEDO LEVEL 3

3	IO05	Speedo	Speedo missing or damaged	Speedo is missing from the driver's console position or damaged.	Green 2	
3	IO06	Speedo	Speedo needle jammed	Speedo needle is jammed or not able to indicate speed of vehicle.	Green 2	
3	IO08	Speedo	Speedo does not work – driver admits	Speedo does not work and driver admits that it does not.	Green 2	

LIGHTING LEVEL 3

All Level 3 lighting faults are referenced in *Appendix 3: Truck lights* and *Appendix 4: Trailer lights*.

3	LA01	Lighting	One (front)/more than two (front/rear) fog lamps fitted	Only one (front), or more than two (front or rear) fog lamp(s) is/are fitted.	Green	
3	LA02	Lighting	One/more than two auxiliary high beam headlamps fitted	Only one, or more than two, additional high beam headlamp(s) is/are fitted.	Green 2	
3	LA03	Lighting	Fog lamp to the rear not red	A fog lamp to the rear is not red.	Green	
3	LA05	Lighting	Auxiliary headlamp not operational or not properly connected.	An auxiliary headlamp is not operational, works intermittently, flashes, or flickers when tapped. An additional high-beam headlamp is not connected so that it extinguishes when the driver switches the OE headlamps from high beam to low beam.	Green 2	Flashing headlamps are permitted on Police vehicles, ambulances, fire engines, some other emergency service vehicles and some load pilot vehicles – refer to the VIRM: In-service certification (WoF and CoF) for details.
3	LA10	Lighting	Auxiliary headlamp emits colour other than white or amber	An auxiliary headlamp emits light of a colour other than white or amber.	Pink	For vehicles fitted with auxiliary headlamps, refer to Auxiliary headlamps (LA01 – LA19).
3	LF01	Lighting	An OE headlamp is not fitted/operating (during darkness)	A vehicle is operated with no mandatory (OE) headlamps fitted, not securely fitted and detachment is imminent or fitted but not operational, works intermittently, flashes or flickers when tapped. During the hours of darkness.	Pink	Flashing headlamps are permitted on Police vehicles, ambulances, fire engines, some other emergency service vehicles and some load pilot vehicles – refer to the VIRM: In-service certification (WoF and CoF) for details.
3	LF02	Lighting	An OE headlamp is not fitted, not securely attached or is not operational (during daylight) or high beam operates on low beam or headlamp is damaged.	A vehicle is operated with no mandatory (OE) headlamps fitted or fitted but not operational, works intermittently, flashes or flickers when tapped or high beam operates when headlights switched to low beam or headlamp is damaged. During the hours of daylight.	Green 2	
3	LF03	Lighting	More than 2 low beam headlamps fitted or operate on low beam.	More than 2 low beam headlamps fitted or operate on low beam.	Green	Not including any additional headlamps. Refer to Additional headlamps (LA01 – LA19) for details on additional headlamps.
3	LF12	Lighting	Headlamp emits colour other than white/amber	A headlamp emits light of a colour other than white or amber.	Green	
3	LF19	Lighting	A headlamp is fully obscured (during darkness)	A headlamp is fully obscured (during darkness).	Pink	Obscured, for example, by a bullbar.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	LF26	Lighting	Headlamps low beam right hand side not working at night	Headlamp right hand side low beam is not working during the hours of darkness.	Pink	
3	LI01	Lighting	Whole direction indicator system does not operate	The whole direction indicator system does not operate.	Pink	
3	LI08	Lighting	Front direction indicator lamp emits colour other than white/amber	A front direction indicator lamp emits light of a colour other than white or amber.	Green 2	Applies also to auxiliary direction indicator lamps (defects without reference to this note do not apply to auxiliary direction indicator lamps).
3	LI09	Lighting	Rear direction indicator lamp emits light other than red or amber	A rear direction indicator lamp emits light of a colour other than red or amber.	Green 2	Applies also to auxiliary direction indicator lamps (defects without reference to this note do not apply to auxiliary direction indicator lamps).
3	LI14	Lighting	Direction indicator lamp fully obscured or two or more not working	A direction indicator lamp is fully obscured or the indicator system operates, but 2 or more lights are not working (or 1 not working if there is only one lamp/side).	Green	Foremost or rearmost on a combination vehicle.
3	LI20	Lighting	Direction indicator light - one not working (if more than 1 per side)	One direction indicator light is not working when there is more than 1 indicator lamp per side.	Green 2	Foremost or rearmost on a combination vehicle.
3	LM02	Lighting	No right side rear position lamp/no other rear right hand side marker lamp operational below 2 metres (during darkness)	No right side rear position lamp working during the hours of darkness and no other rear right hand side marker lamp operational below 2 metres.	Pink	
3	LM04	Lighting	More than one left side marker lamp is not operational (during darkness)	A vehicle is operated during the hours of darkness with no rear side marker lamp fully operational.	Pink	
3	LM05	Lighting	One or more side marker lamps is not operational, damaged or fully or partially obscured (anytime)	A vehicle is operated at any time with one or more side marker lamps not operational, damaged, obscured (including an opaque cover), works intermittently, flashes, or flickers when tapped, is not securely fitted.	Green 2	
3	LM06	Lighting	Rear position (tail) lamp emits light other than red or is fully obscured (at night)	A rear position (tail) lamp emits light of a colour other than red or lamp is fully obscured at night.	Pink	
3	LM09	Lighting	Front side marker lamp emits light other than white or amber (not red)	A front side marker lamp emits light of a colour other than white or amber (but is not red).	Green 2	
3	LM22	Lighting	Side marker lamp emits colour other than white/amber to the front or red/amber to the rear	A side marker lamp emits light of a colour other than white or amber to the front, or red or amber to the rear.	Green 2	
3	LM23	Lighting	Side marker lamp not securely fitted	A side marker lamp is not securely fitted.	Green 2	
3	LN01	Lighting	A registration plate lamp not fitted	A registration plate lamp is not fitted.	Green	
3	LN02	Lighting	Registration plate lamp not operational, insecure, damaged or obscured	A registration plate lamp is not operational, works intermittently, flashes, or flickers when tapped, is not securely fitted or is obscured.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	LN03	Lighting	Registration plate lamp colour other than white or directly visible from the rear.	A registration plate lamp emits light of a colour other than white.	Green 2	
3	LO01	Lighting	More than one work lamp fitted or work lamp not securely fitted	More than one work lamp is fitted or a work lamp is not securely fitted.	Green 2	
3	LO02	Lighting	Work lamp emits colour other than white or amber	A work lamp emits light of a colour other than white or amber.	Green 2	
3	LO08	Lighting	Cornering lamp emits colour other than white/amber	A cornering lamp emits light of a colour other than white or amber.	Green 2	
3	LO15	Lighting	Daytime running lamp emits colour other than white/amber	A daytime running lamp emits light of a colour other than white or amber.	Green 2	
3	LO16	Lighting	Any lamp not securely fitted	Any lamp is not securely fitted.	Green	Only where there is specific danger to other road users.
3	LO17	Lighting	Required cab roof lamp is not fitted	A required cab roof lamp is not fitted.	Green	
3	LO18	Lighting	Cab roof lamp not operational, insecure, damaged, obscured or fitted with a damaged or opaque cover	A cab roof lamp is not operational, works intermittently, flashes, or flickers when tapped, or is not securely fitted, damaged, (eg the lens is damaged or missing, water is in the lamp, or the reflector is deteriorated), obscured or fitted with an opaque cover. The lamp's light output is affected, or failure of the lamp is imminent (eg a lens is missing or significantly damaged, or water is in the lamp).	Green 2	
3	LO19	Lighting	Cab roof lamp emits colour other than amber or is insecure	A cab roof lamp emits light of a colour other than amber or is insecure.	Green 2	
3	LO30	Lighting	Flashing/revolving lamp not fitted as specified/required, exceeds number permitted, emits incorrect colour or is not securely fitted	A flashing or revolving lamp is not fitted as specified or required, exceeds the number permitted, emits light of a colour other than the colour specified or is not securely fitted.	Green 2	
3	LO34	Lighting	RH rear position (tail) lamp out at night	Rear position lamp(s) on right hand side of a combination vehicle or single vehicle not in a combination are not working during the hours of darkness (refer to preamble).	Pink	
3	LO35	Lighting	LH rear position (tail) lamp out at night	Rear position lamp(s) on left hand side of a combination vehicle or single vehicle not in a combination are not working during the hours of darkness (refer to preamble).	Green	
3	LR01	Lighting	Right hand rear reflector missing/ ineffective in darkness	Right-hand rear reflector is missing, obscured or ineffective during hours of darkness but other lights are operating.	Green 2	
3	LR02	Lighting	No required rear reflectors fitted	No required rear reflectors are fitted.	Green	
3	LR04	Lighting	Rear reflector colour other than red or not securely fitted	A rear reflector reflects light of a colour other than red or is not securely fitted.	Green 2	
3	LR10	Lighting	Reflector RHS ineffective at night - vehicle not visible	Reflector right hand side is missing or ineffective during hours of darkness and vehicle is NOT readily visible by other means.	Pink	
3	LR13	Lighting	Reflector LHS ineffective at night	Reflector left hand side missing or ineffective during hours of darkness.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	LS01	Lighting	No stop lamps are fitted or they do not operate when the service brake is applied or are missing or obscured	No required stop lamps are fitted or do not operate when service brake applied, are fully obscured or missing on a single vehicle or the rearmost vehicle in a combination.	Pink	
3	LS02	Lighting	Only one of two required stop lamps is fitted	Only one of two required stop lamps is fitted.	Green 2	One light is missing or not working.
3	LS04	Lighting	Only one stop lamp operates when service brake applied	Only one stop lamp operates when service brake applied.	Green 2	Applies also to auxiliary stop lamps (defects without reference to this note do not apply to auxiliary stop lamps).
3	LS05	Lighting	All stop lamps operate when service brake is not applied	All stop lamps operate when service brake is not applied.	Green	Applies also to auxiliary stop lamps. Auxiliary brakes may activate stop lamps (defects without reference to this note do not apply to auxiliary stop lamps).
3	LS09	Lighting	Stop lamp emits colour other than red	A stop lamp emits light of a colour other than red.	Green 2	Applies also to auxiliary stop lamps (defects without reference to this note do not apply to auxiliary stop lamps).
3	LS10	Lighting	A stop lamp is not securely fitted, is damaged affecting output, may fail or is obscured.	A stop lamp is damaged (eg the lens is damaged or missing, water is in the lamp, or the reflector is deteriorated). The lamp's light output is affected or it may fail or the lens is obscured affecting output or it is not securely fitted.	Green 2	Applies also to auxiliary stop lamps (defects without reference to this note do not apply to auxiliary stop lamps).

FLUID LEAKS LEVEL 3

3	MF13	Fluid leaks	Oil leak: vehicle power train - severe	Oil leaks from engine diff or gearbox - danger to other road users.	Pink	There is pooling under the vehicle when it is stationary.
3	MF14	Fluid leaks	Oil leak: hydraulic ancillary system - severe	Oil leaks from hoist, crane etc - danger to other road users.	Pink	There is pooling under the vehicle when it is stationary.
3	MF15	Fluid leaks	Fluid leaks other	Fluid leaks from any other source that warrants attention but does not pose a danger to other road users.	Green 2	

FUEL SYSTEM LEVEL 3

3	EF07	Fuel system	Fuel tank, battery box, etc dangerously insecure	Fuel tank, battery box, or any other heavy item is grossly insecure due to missing upper bolts, nuts, or broken/cracked or missing bracket.	Pink	
3	EF08	Fuel system	Fuel tank, battery box, etc insecure or loose	Fuel tank, battery box, air tanks or any other heavy item is not properly secured because some of the bolts are loose.	Green 2	
3	MF05	Fuel system	Fuel cap not fitted/does not prevent spillage	A fuel cap is not fitted or if fitted, does not prevent spillage.	Pink	
3	MF06	Fuel system	Fuel tank, pump, pipe, hose or connector damaged failure is imminent	The fuel tank, pump, pipe, hose or connector leaks or failure is imminent.	Pink	
3	MF07	Fuel system	The fuel tank, pump, pipe, hose or connector is significantly damaged	The fuel tank, pump, pipe, hose or connector is significantly damaged, eg cracked or excessively worn or corroded.	Green	In the case of a pipe, the pipe is pitted or its outside diameter is noticeably increased.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	MF08	Fuel system	The fuel tank, pump, pipe, hose or connector is damaged but not significantly. Failure is not imminent	The fuel tank, pump, pipe, hose or connector is damaged but not significantly damaged. Failure is not imminent.	Green 2	
3	MF10	Fuel system	Fuel dripping	Fuel leaking while vehicle is standing, ie free flow or dripping or could create fire risk – dangerous to other road users.	Pink	
3	MF12	Fuel system	Fuel seepage from fuel system	Fuel is seeping from fuel system but there is no fire risk or risk to safety of other road users.	Green 2	

EXHAUST SYSTEM LEVEL 3

3	ME02	Exhaust system	Exhaust system not effective/leaks or excessive noise	An exhaust system that is not effective because it has not been properly maintained, or has been damaged and the system leaks or creates excessive noise.	Green	
3	ME03	Exhaust system	Exhaust system not securely fitted – detachment imminent	An exhaust system is not securely fitted and detachment is imminent.	Pink	
3	ME08	Exhaust system	Exhaust loose or shows leaks before muffler	Exhaust is loose or shows signs of leaks on primary side (in front of muffler).	Green	
3	ME11	Exhaust system	Excessive noise	Excessive noise from any part of the vehicle's exhaust system.	Green	

STEERING LEVEL 3

3	SA02	Steering	Drop arm worn imminent failure	Drop arm indicates excessive movement or unacceptable wear and looseness in steering components outside manufacturer's tolerances where failure is imminent.	Pink	
3	SA03	Steering	Drop arm loose	Drop arm indicates excessive movement or unacceptable wear and looseness in steering components outside manufacturer's tolerances.	Green	
3	SB08	Steering	Steering box mount loose	Steering box mount loose.	Pink	
3	SC04	Steering	Steering linkage loose	Steering linkage indicates excessive movement or unacceptable wear and looseness in steering components outside manufacturer's tolerances.	Green	
3	SC05	Steering	Steering linkage loose imminent failure	Steering components indicate excessive movement or unacceptable wear and looseness in steering linkage outside manufacturer's tolerances and failure is imminent.	Pink	
3	SP01	Steering	Power steering system leak – major	Power steering system has a major leak – must be dripping.	Pink	
3	SW03	Steering	Steering wheel excessive movement	Steering wheel indicates excessive movement or unacceptable wear and looseness in steering components >30 degrees.	Green	Rotational free-play measured (as per VWA0 at the steering wheel rim (road wheels on the ground) should not exceed: for a rack and pinion system: 1/30 of steering wheel Ø (eg 13mm for a 390mm Ø wheel); for other systems: 1/5 of the steering wheel Ø (eg 76mm for a 380mm Ø wheel).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
BRAKES LEVEL 3						
3	BC20	Brakes	Brake connection between vehicles not two line type	A brake connection between vehicles is fitted that is not a two line type.	Pink	
3	BC21	Brakes	Brake connection not colour coded, can be incorrectly connected	A brake connection is not colour coded and can be incorrectly connected.	Green	Control line: yellow, green or blue; supply line: red. Not applicable to vehicles certified to HVEK (Schedule 5).
3	BC22	Brakes	Brake coupling not in one piece	A brake coupling is not in one piece ¹ and is incorrectly colour coded ⁶ , or not mounted close to the vehicle's centre line or has other coupling connection devices that could be used inadvertently.	Green	1. Duomatic, Trimatic or similar. 6. Colour coded within 150mm of the coupling and mounted in the following manner: LHS of coupling: control line coloured blue or black. RHS of coupling: supply line coloured in red or yellow.
3	BC23	Brakes	Brake coupling incorrectly colour coded/incorrectly mounted/other coupling devices	A brake coupling is in one piece but is incorrectly colour coded, or not mounted close to the vehicle's centre line or has other coupling connection devices that could be used inadvertently.	Green	Colour coded within 150mm of the coupling and mounted in the following manner: LHS of coupling: control line coloured blue or black. RHS of coupling: supply line coloured in red or yellow.
3	BK01	Brakes	Vehicle in combination with GCM 39,000kg - 44,000kg not certified	A vehicle used in a combination with a GCM between 39,000kg and 44,000kg is not certified for compliance with either the IHVBS ¹ , the NZHVBC ¹ or the NZHVBR.	Pink	1. May be allowed to continue (QP) with conditions (eg offload to 39 tonne). Requires certification (LT400).
3	BK03	Brakes	Vehicle/modification certified to the IHVBS/NZHVBC - certification documentation missing/invalid	A vehicle or modification certified to the IHVBS or NZHVBC does not have a required statement of compliance or certification document, certification plate, CoL entry or modification certificate, or the statement or document, plate, entry or certificate is invalid, illegible, incomplete or incorrect.	Pink	Requires certification (LT400).
3	BO06	Brakes	Air line restrictions - affects brake operation	Air line restrictions that affect the operation of a brake (kinked, bent, squashed, blocked, etc).	Pink	
3	BO07	Brakes	Air line restrictions - brake operating	Air line restrictions that do not affect the operation of a brake (kinked, flattened, bent).	Green	
3	BO08	Brakes	Air line insecure	Air line(s) are insecure with no chafing evident.	Green 2	
3	BO09	Brakes	Air line chafing evident	Air line chafing evident but not leaking.	Green 2	
3	BO10	Brakes	Air leak low air pressure <30 seconds	Air leak with park brake released, service brake applied. Low air pressure alarm activates in less than 30 seconds.	Pink	
3	BO11	Brakes	Air leak low air pressure >30 seconds	Air leak with park brake released, service brake applied. Low air pressure alarm activates at more than 30 seconds.	Green	
3	BO13	Brakes	Air leak park brake system	Air leak with park brake system released.	Pink	
3	BO14	Brakes	Air leaks any other system	Air leak from any other system.	Green	
3	BO15	Brakes	Air tank mounts broken - tanks insecure	Air tank mounts broken or damaged that cause the tank(s) to be insecure.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	BO16	Brakes	Air tank single mount point broken	Air tank with single mounting point broken or damaged tank detachment not imminent (assuming four mounting points).	Green 2	
3	BO17	Brakes	Brake chamber missing or loose or damaged	Brake chamber missing or loose or damaged (effecting operation), housing is perforated by corrosion and the assembly is unsound or air lines disconnected and/or blocked off.	Pink	
3	BO19	Brakes	Push rod doesn't move - brakes applied	Push rod does not move when park brake is off and service brake is applied.	Pink	
3	BO20	Brakes	Brake equipment loose	Brake equipment, components or mounts loose.	Green	
3	BO22	Brakes	Brake temperature check	Brake temperature check has detected brake performance defects refer to CVIU standard operating procedures.	Green	
3	BO23	Brakes	Hoses to trailer brakes not connected	Hoses to trailer brakes not fitted or disconnected.	Pink	
3	BO24	Brakes	EBS/ABS system inoperative	An EBS or ABS system is found to be inoperable when it is required to be operational (HPMV) or where the vehicle's standard compliance or certification (HVBNZ) requires it to be operational.	Pink	Trailer ABS/EBS must be powered up through a compliant plug and socket if the vehicle is certified to HVBNZ.
3	BO25	Brakes	Suzie coil hose draw bar, no brake away feature	Suzie coil hose on full trailer draw bar with no means of a activating breakaway feature.	Green	
3	BS01	Brakes	Brake fails to release immediately after brake pedal released	A brake fails to release immediately after the brake pedal is released.	Pink	
3	BS11	Brakes	Brake pedal not securely fastened - detachment not imminent, pedal loose	A brake pedal is not securely fastened. The pedal is loose (eg there is significant sideways movement) but it cannot contact the structure or any fittings.	Green	
3	BS12	Brakes	Brake pedal not securely fastened. Detachment not imminent.	A brake pedal is not securely fastened. Detachment is not imminent, the pedal cannot contact the vehicle structure/fittings.	Green 2	
3	IPO4	Brakes	The park brake actuator missing/not operational/does not lock into position, remains applied when released, is not securely fastened & may detach. Risk of inadvertent release	A park brake actuating lever is missing or not operational or does not lock into position and remains permanently applied or remains applied when released or is not securely fastened and may detach or there is a risk of inadvertent release.	Pink	
3	IPO6	Brakes	Park brake actuator not securely fastened, detachment not imminent	A lever is not securely fastened. Detachment is not imminent and there is no risk of the brake being released inadvertently.	Green	

SUSPENSION LEVEL 3

3	UA02	Suspension	Shock absorbers missing damaged or leaking excessively	A shock absorber is missing, damaged or leaking excessively.	Green	
3	UA03	Suspension	Shock absorbers missing damaged or leaking excessively & air bags faulty	A shock absorber is missing, damaged or leaking excessively and the air bag associated with that shock absorber is also faulty.	Pink	
3	UB05	Suspension	Air bag damaged/fully deflated - laden	Air bag bellows has obvious external damage - protruding, exposed or worn cords and/or the bag is fully deflated, with vehicle in laden condition.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	UB06	Suspension	Air bag damaged	Air bag bellows has obvious external damage – protruding, exposed or worn cords.	Green	
3	UB07	Suspension	Air bag damaged or fully deflated – unladen	Air bag fully deflated, with vehicle in unladen condition.	Green 2	
3	UL06	Suspension	Coil spring broken	Coil spring(s) broken.	Pink	
3	UL07	Suspension	Leaf spring broken – locates the axle. Or seriously damaged, missing or cracked	Leaf spring(s) that locates the axle are broken (applies only to main leaf). The main leaf(s) or more than 1/4 of the leaves in one leaf spring assembly are missing, damaged or cracked or a spring or one of its components is damaged, eg excessively worn ¹ or corroded, broken, welded, distorted, or cracked ² .	Pink	1. Wear in suspension pins and bushings must not exceed: for pins. 2. In the case of a leaf spring, particular attention should be paid to the areas near the spring eye in the main leaf.
3	UL08	Suspension	Leaf spring broken – doesn't locate the axle	Leaf spring(s) that does not locate the axle (applies to all supporting leaves).	Green 2	
3	UL09	Suspension	Spring slipper box spring not retained	Spring slipper box is worn or broken so that the spring is no longer restrained.	Pink	
3	UL10	Suspension	Spring slipper box cracked	Spring slipper box cracked or damaged but the spring is still retained.	Green 2	
3	UX04	Suspension	Axle position displaced	Axle position is displaced.	Pink	
3	UX05	Suspension	Axle locating device broken or missing – includes loose “U” bolts	Axle locating device is broken or missing (radius arm, U-bolt, centre bolt, etc).	Pink	

CHASSIS LEVEL 3

3	CC01	Chassis	Cross member is broken	Cross member is broken or missing or severely damaged by corrosion.	Pink	Second or subsequent repair Requires certification (LT400).
3	CC02	Chassis	Cross member has a visible crack	Cross member has a visible crack.	Green	Second or subsequent repair Requires certification (LT400).
3	CC03	Chassis	Chassis or cross-member fastenings insecure	Chassis or cross-member fastenings are visibly loose or insecure and have signs of movement – rivets, nuts, bolts or any other type of fastening. Unsafe condition.	Pink	
3	CC04	Chassis	Chassis or cross-member fastenings insecure	Chassis or cross-member fastenings are visibly loose or insecure and have signs of movement – nuts, bolts or any other type of fastening that require only retightening. New CoF not required.	Green 2	
3	CC05	Chassis	Monocoque construction showing signs of imminent failure	A vehicle of monocoque construction shows signs of failure above the threshold in the technical reference document in the back of this manual.	Pink	See Appendix 2: Assessing composite monocoque vehicle defects. Requires certification (LT400).
3	CC06	Chassis	Monocoque construction showing signs of possible failure	A vehicle of monocoque construction shows signs of failure but less than the threshold in the technical reference document in the back of this manual.	Green	See Appendix 2: Assessing composite monocoque vehicle defects. Requires certification (LT400).
3	CC07	Chassis	Monocoque construction showing signs of possible failure	A vehicle of monocoque construction shows signs of failure but less than the threshold in the technical reference document in the back of this manual.	Green 2	See Appendix 2: Assessing composite monocoque vehicle defects. Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	CC08	Chassis	Chassis has severe corrosion or rust heave	Chassis has corrosion with flaking rust and significant reduction of material thickness or rust heave.	Green	Corrosion is most likely to occur in areas where moisture is retained. If "rust heave" between a chassis member and a fixture exceeds twice the thickness of the chassis member, or a maximum of 6mm, the chassis should be inspected by a specialist certifier. Particular attention should be paid to any vehicle used to carry stock, fertiliser or corrosive cargo. Rust stains can indicate the fretting or movement between two components. This can be caused by loose fasteners or by cracking. Requires certification (LT400).
3	CD03	Chassis	Attachment points broken or missing 1/3 or more attachment points are loose and the vehicle is loaded	Attachment points for subframe or body broken or missing or severely damaged by corrosion or the attachment points of the subframe or body are missing, broken or visibly loose on more than 1/3 of one side and the vehicle is laden.	Pink	Requires certification (LT400).
3	CR03	Chassis	Chassis rail crack on flange >30mm or web >60mm	Chassis rail has a visible crack either on the flange greater than 30mm or on the web greater than 60mm.	Pink	Chassis cracking is most likely to occur in the following areas: abrupt changes in the area adjacent to welds; body mounting points adjacent to loose fasteners; notches. Requires certification (LT400).
3	CR04	Chassis	Chassis rail crack to flange and web of rail	Chassis rail has a visible crack that extends at least partially through to both the flange and web of the rail.	Pink	Requires certification (LT400).
3	CR05	Chassis	Chassis rail clearly buckled or twisted	Chassis rail is buckled or twisted and it is clearly detectable.	Pink	Requires certification (LT400).
3	EB01	Chassis	Sub-frame or body attachment bolts loose - unladen	Sub-frame or body attachment bolts, nuts or other types of fastening are loose but not missing and vehicle is unladen.	Green 2	
3	VC01	Chassis	Wheelbase or axle change not on loading cert	Wheelbase extended or shortened, axle is added or removed, and details are not recorded on the loading certificate.	Green	Requires certification (LT400).

DRIVELINE LEVEL 3

3	MD17	Driveline	Drive-shaft flange or universal joint loose	Drive-shaft flange or universal joint are loose, worn or missing a bolt or nut.	Pink	
3	MD18	Driveline	Centre bearing insecure, worn or damaged	Drive-shaft centre bearing hanger or rubber insecure, damaged, dislodged or perished.	Pink	

TYRES AND WHEELS LEVEL 3

3	WT01	Tyres and wheels	Wheel is not securely fitted to the vehicle - detachment imminent	A wheel is not securely fitted to the vehicle and two or more wheel nuts/studs are missing, or detachment of the wheels is imminent.	Pink	
3	WT02	Tyres and wheels	Wheel is not securely fitted to the vehicle - detachment not imminent	A wheel is not securely fitted to the vehicle, less than two wheel nuts/studs are loose or missing, detachment of the wheel is not imminent.	Green	Must be retorqued before leaving.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	WT03	Tyres and wheels	Tyre profile mismatch	Tyres on a common axle of a vehicle are of different size or construction.	Green 2	
3	WT05	Tyres and wheels	Tyre load capacity insufficient	The load capacity of a tyre is insufficient.	Green 2	Based on the vehicle's statutory weight limit or CoL load rating.
3	WT07	Tyres and wheels	Fitted with tyre not intended for use on road	A tyre is fitted that is not intended for use on public roads or with the vehicle to which it is fitted eg a tyre is clearly marked "not for highway use", "for racing purposes only", or "for trailer use only" (if used on a vehicle other than a trailer).	Pink	
3	WT08	Tyres and wheels	Spare wheel not securely fitted - detachment imminent	A spare wheel is not securely fitted to the vehicle or the securing mechanism is in poor condition, missing, damaged or modified, and detachment is imminent.	Pink	Modifications to the spare wheel securing mechanism require certification.
3	WT09	Tyres and wheels	Spare wheel not securely fitted - detachment not imminent	A spare wheel is not securely fitted to the vehicle or the securing mechanism is in poor condition, missing, damaged or modified but detachment is not imminent.	Green	Modifications to the spare wheel securing mechanism require certification.
3	WT10	Tyres and wheels	Tread insufficient - operated in rain	A vehicle is fitted with a tyre that does not have a tread depth of at least 1.5mm within all principal grooves containing moulded tread depth indicators on the steering axle or both tyres in a dual tyre set and is operated in the rain.	Pink	See Walk around inspection criteria - to be the same as the WAI. Does not apply to exempt tyres.
3	WT11	Tyres and wheels	Tread insufficient - not operated in rain	A vehicle is fitted with a tyre that does not have a tread depth of at least 1.5mm within all principal grooves containing moulded tread depth indicators and the vehicle is not operated in rainy conditions and is not on a steering axle.	Green	See Walk around inspection criteria - to be the same as the WAI. Does not apply to exempt tyres.
3	WT13	Tyres and wheels	Tyre not correctly inflated - operation/control not affected	A tyre is not correctly inflated (the tyre is flat) but the incorrect pressure does not adversely affect the operation or control of the vehicle.	Green 2	
3	WT14	Tyres and wheels	A tyre is damaged - operation affected and/or failure imminent	A tyre shows a lump or bulge, a cut reaching the body cords or exceeding 25mm in length, or other significant damage, and failure of the tyre is imminent or the vehicle cannot be operated safely.	Pink	Refer to VIRM: In-service certification (Wof and CoF) for details. See Figure 10-1-5 for details.
3	WT15	Tyres and wheels	A tyre is damaged - operation affected	A tyre shows a lump or bulge, a cut reaching the body cords or exceeding 25mm in length, or other significant damage, and operation of the vehicle is adversely affected but failure is not imminent.	Green	Refer to VIRM: In-service certification (Wof and CoF) for details. See Figure 10-1-5 for details.
3	WT16	Tyres and wheels	A tyre is damaged - operation not affected	A tyre shows a lump or bulge, a cut reaching the body cords or exceeding 25mm in length, or other significant damage, but operation of the vehicle is not adversely affected and failure is not imminent.	Green 2	Refer to VIRM: In-service certification (Wof and CoF) for details. See Figure 10-1-5 for details.
3	WT17	Tyres and wheels	Tyre string repair from outside	A tyre is repaired using a string repair from the outside.	Green 2	
3	WT20	Tyres and wheels	Alloy or steel rim damaged - operation affected and/or failure imminent	An alloy or steel rim is damaged - a rim is cracked or distorted, or there is other significant damage, and failure or the rim is imminent or the vehicle cannot be operated safely.	Pink	
3	WT22	Tyres and wheels	Alloy or steel rim damaged - operation not affected	An alloy or steel rim is damaged - a rim is cracked or distorted, or there is other significant damage, safe operation not affected.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	WT23	Tyres and wheels	Tyre contact with body or frame	Tyre(s) show evidence of sustained running contact with body, frame, chassis, suspension, etc also refer to suspension section.	Green	
3	WT24	Tyres and wheels	Tyre delaminating - tread area (retread)	Tyre delaminating in tread area of a retread.	Pink	
3	WT29	Tyres and wheels	Cord damage steering axle	Cord(s) are damaged on a steering axle tyre.	Pink	
3	WT30	Tyres and wheels	Cord damage non-steering axle	Cord(s) are damaged on a non-steering axle tyre.	Green 2	Refer to VIRM: In-service certification (Wof and CoF) for details. See Figure 10-1-5 for details.
3	WT31	Tyres and wheels	Cord damage non-steering axle	Cord(s) are damaged on a non-steering axle tyre and are showing in the "tread block" area.	Green	Refer to VIRM: In-service certification (Wof and CoF) for details. See Figure 10-1-5 for details.
3	WT32	Tyres and wheels	Tyre profile mismatched - vehicle laden	Tyre profiles are mismatched with the vehicle laden.	Green	Refer to VIRM: In-service certification (Wof and CoF) for details. See Figure 10-1-5 for details.
3	WT33	Tyres and wheels	Side wall bulge	Sidewall has a bulge protruding greater than 10mm high.	Pink	
3	WT34	Tyres and wheels	Side wall bulge	Sidewall has a bulge protruding no greater than 10mm high.	Green 2	
3	WT35	Tyres and wheels	Side wall unzipping	Side wall unzipping/split and cords damaged.	Pink	
3	WT36	Tyres and wheels	Wheel Nuts loose	Any wheel nuts loose.	Green 2	
3	WT37	Tyres and wheels	Wheel stud holes elongated	Wheel stud holes elongated on any wheel.	Pink	
3	WT38	Tyres and wheels	Wheel studs/nuts missing, vehicle laden	Wheel studs/nuts missing on the same wheel (2 or more) and vehicle is laden. (Wheel detachment is imminent).	Pink	
3	WT39	Tyres and wheels	Wheel studs/nuts missing, vehicle unladen	Wheel studs/nuts missing on the same wheel (2 or more) and vehicle is unladen.	Green	
3	WT40	Tyres and wheels	Studs/nuts 1 missing, vehicle laden	Wheel stud/nut one only missing with vehicle laden.	Green	
3	WT41	Tyres and wheels	Studs/nuts 1 missing or loose, vehicle unladen	Wheel stud/nut one only missing with vehicle unladen if the hub has more than 6 studs.	Green 2	
3	WT42	Tyres and wheels	Studs/nuts 1 missing on spider hubs	Wheel stud/nut one only missing on 5/6 bolt/stud spider hubs.	Green 2	
3	WT43	Tyres and wheels	Spare wheel carrier insecure	Spare wheel carrier and or wheel insecure and detachment imminent.	Pink	
3	WT44	Tyres and wheels	Tread in dual set 1 tyre below minimum	Tyre tread depth insufficient on one tyre of a dual set and vehicle is a PSV.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
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MUDGUARDS LEVEL 3

3	WG01	Mudguards	Mudguard or mudflap not fitted	A mudguard or mudflap is not fitted over appropriate road wheel.	Pink	Refer to VIRM: In-service certification (WoF and CoF) for exemptions.
3	WG02	Mudguards	Mudguard or mudflap not effective/does not comply	A mudguard or mudflap is not effective or does not comply with applicable requirements.	Green 2	Refer to VIRM: In-service certification (WoF and CoF) for exemptions.
3	WG03	Mudguards	Mudguard or mudflap not securely fitted or is detaching	A mudguard or mudflap is not securely fitted or is detaching. It is dangerous or detachment is imminent and cannot be mitigated at roadside.	Pink	Refer to VIRM: In-service certification (WoF and CoF) for exemptions.
3	WG06	Mudguards	Mudguard/mudflap assembly detaching. Road side fix	Mudguard or mudflap assembly is not securely fitted or is detaching and may become dangerous but danger can be mitigated at road side.	Green	Refer to VIRM: In-service certification (WoF and CoF) for exemptions.
3	WG07	Mudguards	Mudguard/mudflap missing from last axle combination	Mudguard or mudflap is missing from last axle in a combination.	Pink	Mudflap and mudguard may be separate. See Appendices.

BALL-RACE TURN TABLES LEVEL 3

3	BC24	Ball-race turntables	Ball-race turntable cracked	Ball-race turntable cracked.	Pink	Requires certification (LT400).
3	BC25	Ball-race turntables	Ball-race turntable missing 1 bolt	Ball-race turntable missing one bolt but others are tight.	Green 2	
3	BC26	Ball-race turntables	Ball-race turntable missing more than 1 bolt	Ball-race turntable missing more than one bolt.	Green	
3	BC27	Ball-race turntables	Turntable fasteners loose (other)	Ball-race turntable has any loose fasteners not in other categories.	Green 2	
3	BC28	Ball-race turntables	Turntable mount bolt holes cracked	Ball-race turntable mounting bolt holes cracked.	Pink	Requires certification (LT400).
3	BC29	Ball-race turntables	Turntable contact between top and bottom plates	Ball-race turntable shows evidence of contact between top and bottom mounting bolts or plates.	Pink	
3	BC31	Ball-race turntables	Turntable bolts loose - up to 25% (max 3)	Ball-race turntable bolts loose - Lesser of 25% to a maximum of 3 or a maximum of 2 in a quadrant.	Green	
3	BC32	Ball-race turntables	Turntable bolts loose - more than 25% or 3	Ball race turntable bolts loose - More than 3 or more than 2 in a quadrant, or more than 25%.	Pink	
3	BC33	Ball-race turntables	Turntable ring cracking around circumference	Ball-race turntable ring has any cracking around circumference.	Pink	Requires certification (LT400).
3	TC01	Ball-race turntables	Ball-race turntable damaged/not securely fitted - immediate risk of failure	A ball-race turntable is damaged, worn or not securely fitted to a vehicle, the integrity of the ball-race turntable is significantly compromised and there is an immediate risk of failure.	Pink	For example, the top or bottom flange has <7 effective bolts; there are cracks through >20% of original welds or parent metal; the upper and lower race surfaces/flanges/bolts are in contact. Requires certification (LT400).
3	TC02	Ball-race turntables	Ball-race turntable damaged/not securely fitted - no immediate risk of failure	A ball-race turntable is damaged, worn or not securely fitted to a vehicle, the integrity of the ball-race turntable may be compromised but there is no immediate risk of failure.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
TOW COUPLINGS AND 5TH WHEEL LEVEL 3						
3	TB01	Tow couplings and 5th wheel	Towing eye worn, welded or heat treated in a way not permitted by manufacturer	A towing eye is worn beyond the manufacturer's limit or is repaired, welded or heat treated in a way not permitted by the manufacturer.	Pink	A Ø 40mm pin type eye exceeds 41.6mm, or a Ø 50mm pin type eye exceeds 51.5mm, or any section of the eye is reduced by >20% ("Go/No-go" range). Requires certification (LT400).
3	TB03	Tow couplings and 5th wheel	Bottom Bush more than 4mm wear	Tow coupling bottom bush has more than 4mm wear or other wear outside manufacturer's specifications.	Green 2	
3	TB04	Tow couplings and 5th wheel	Go/No-go gauge fits through tow-eye bush thrust faces	Go/No-go gauge passes through the the tow-eye bush thrust faces.	Green	A Ø 40mm pin type eye exceeds 41.6mm, or a Ø 50mm pin type eye exceeds 51.5mm, or any section of the eye is reduced by >20% ("Go/No-go" range). Requires certification (LT400).
3	TB05	Tow couplings and 5th wheel	Tow-eye bolt loose in tow-eye	Any play in a bolted tow-eye.	Pink	
3	TB06	Tow couplings and 5th wheel	Tow-eye bent	There is a bend in a tow-eye greater than 5mm in any plane.	Pink	Requires certification (LT400).
3	TB07	Tow couplings and 5th wheel	Tow-eye bush missing	Tow-eye bush missing.	Pink	Requires certification (LT400).
3	TB08	Tow couplings and 5th wheel	Hinge pin bolts or bushings worn or loose	Draw bar hinge pin bushings excessively worn or bolts loose.	Green	Requires certification (LT400).
3	TC03	Tow couplings and 5th wheel	Tow coupling cracks	Tow coupling any cracks in draw bar, draw beam, or coupling.	Pink	Where a tow coupling has cracks in the shroud which is a bolt on, non structural component there is no fault. On Ringfedder models where the shroud is a cast structural component cracking/repair is allowed within 50mm of the lip on the leading edge (refer manufacturer's technical date). Requires certification (LT400).
3	TC04	Tow couplings and 5th wheel	Tow couplings mismatched	Tow couplings mismatched (40mm vs. 50mm).	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	TC05	Tow couplings and 5th wheel	Base plate wear pad or underside of toweye worn more than 4mm	Draw bar base plate wear pad or underside of toweye worn more than 4mm.	Green 2	
3	TC06	Tow couplings and 5th wheel	Drop bolt pin blockage prevents secondary system locking	Foreign material in bottom recess for drop bolt pin preventing secondary system locking.	Pink	
3	TC07	Tow couplings and 5th wheel	Go/No-go gauge fits over drop bolt raised section	Go/No-go gauge fits over drop bolt pin raised section.	Green	
3	TC08	Tow couplings and 5th wheel	Tow coupling nut loose or split pin missing	Tow coupling retainer nut loose or split pin missing.	Pink	
3	TC09	Tow couplings and 5th wheel	Cert. plates missing or illegible	Draw beam or draw bar certificate plates missing or illegible.	Green	Requires certification (LT400).
3	TC10	Tow couplings and 5th wheel	Ground contact prevention device missing	Draw bar ground contact prevention device missing.	Green 2	
3	TC11	Tow couplings and 5th wheel	Hinge pin bolt/nut missing	Draw bar hinge pin bolt/nut missing.	Pink	
3	TC12	Tow couplings and 5th wheel	Mounting bolts loose - more than one per side	Mounting bolt loose more than one per side (includes 5th wheel, drawbar, and drawbeam side plates).	Pink	
3	TC13	Tow couplings and 5th wheel	Mounting bolt loose - one per side	Mounting bolt loose one per side (includes 5th wheel, drawbar, and drawbeam side plates).	Green 2	
3	TD02	Tow couplings and 5th wheel	Drawbeam/towing connection damaged or not securely fitted - risk of failure in use	A drawbeam is not securely fitted to the vehicle, a towing connection is not securely fitted to the drawbeam, or a drawbeam or towing connection is damaged or cracked. The integrity of the drawbeam or towing connection is significantly compromised and there is an immediate risk of failure if the towing connection is utilised irrespective of whether it is currently in use.	Pink	See technical details in <i>Appendix 5: Damage limits for towing connections</i> . Certification required (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	TD04	Tow couplings and 5th wheel	Drawbeam/towing connection damaged or not securely fitted - no immediate risk of failure	A drawbeam is not securely fitted to the vehicle, a towing connection is not securely fitted to the drawbeam, or a drawbeam or towing connection is damaged or cracked. The integrity of the drawbeam or towing connection may be compromised but there is no immediate risk of failure.	Green	For example, there is significant damage such as cracks, deformation or corrosion of the drawbar, or excessive wear of the towing eye. Requires certification (LT400).
3	TF07	Tow couplings and 5th wheel	5th wheel locking mechanism - primary or secondary not engaging correctly	5th wheel primary or secondary locking mechanism or latch not engaged.	Pink	Corrected at roadside QP.
3	TF09	Tow couplings and 5th wheel	5th wheel mounting bolts or fasteners missing	5th wheel has any missing mounting bolts or fasteners.	Pink	
3	TF10	Tow couplings and 5th wheel	Tow coupling not securely attached.	Heavy vehicle to light trailer connection is not securely attached.	Pink	
3	TF11	Tow couplings and 5th wheel	5th wheel no 'stop' to prevent disconnection	5th wheel does not have a 'stop' fitted to prevent accidental disconnection (adjustable sliding type).	Pink	Requires certification (LT400).
3	TR01	Tow couplings and 5th wheel	Drawbar not certified or certification expired	A drawbar is not certified as required or its certification has expired.	Green	Refer to the VIRM: In-service certification (WoF and CoF) for drawbar certification requirements. Requires certification (LT400).
3	TR02	Tow couplings and 5th wheel	Drawbar damaged/not securely fitted - immediate risk of failure	A drawbar is damaged or not securely fitted to the vehicle, the integrity of the drawbar is significantly compromised and there is an immediate risk of failure.	Pink	For example, there is significant damage such as cracks, deformation or corrosion of the drawbar, or excessive wear of the towing eye. Requires certification (LT400).
3	TR03	Tow couplings and 5th wheel	Drawbar damaged/not securely fitted - no immediate risk of failure	A drawbar is damaged or not securely fitted to the vehicle, the integrity of the drawbar may be compromised but there is no immediate risk of failure.	Green	For example, there is significant damage such as cracks, deformation or corrosion of the drawbar, or excessive wear of the towing eye. Requires certification (LT400).
3	TR06	Tow couplings and 5th wheel	Drawbar certificate unsatisfactory	The certificate of a drawbar is expired, invalid, illegible, incomplete, incorrect, or certification is not recorded on the CoL, and the vehicle is unladen.	Green	Refer to the VIRM: In-service certification (WoF and CoF) for drawbar certification requirements. May be QG if unladen. Requires certification (LT400).
3	TR08	Tow couplings and 5th wheel	Draw bar deformed	Draw bar deformed, dented, bent, crushed or damaged.	Pink	For bending the tolerance is 5mm/M. for deformed, dented or crushed the tolerance is 6mm (material thickness). Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	TR09	Tow couplings and 5th wheel	Retractable or telescopic draw bar locking pin and end stop missing	Retractable or telescopic draw bar locking pin missing from pole drop pin and end stop missing.	Pink	Requires certification (LT400).
3	TR10	Tow couplings and 5th wheel	Retractable or telescopic draw bar end stop missing	Retractable or telescopic draw bar end stop missing but locking pin fitted to pole drop pin.	Green	Requires certification (LT400).
3	TR11	Tow couplings and 5th wheel	Retractable draw bar locking pin or retaining device missing	Retractable draw bar locking pin or retaining device missing from pole drop pin and end stop in place.	Green	Requires certification (LT400).

LOAD ANCHORAGES LEVEL 3

3	EL02	Load anchorage	Load anchorage system not certified	A load anchorage system is not certified for compliance with NZS5444.	Pink	Refer to the VIRM: In-service certification (WoF and CoF) for certification label requirements. May be QP if there is no risk of losing the load. Requires certification (LT400).
3	EL04	Load anchorage	Stock crate retaining system not certified - loaded	A stock crate retaining system manufactured before 01/01/95 is not certified for compliance with section 5 of NZS5413 and the vehicle is loaded.	Pink	Requires certification (LT400).
3	EL05	Load anchorage	Stock crate retaining system not certified - unloaded	A stock crate retaining system manufactured before 01/01/95 is not certified for compliance with section 5 of NZS5413 but the vehicle is not loaded.	Green	Requires certification (LT400).
3	EL06	Load anchorage	Stock crate or monocoque stock trailer not certified	A stock crate retaining system or monocoque stock trailer is not certified with compliance with NZS5413.	Pink	Requires certification (LT400).
3	EL07	Load anchorage	Load anchorage damaged/not securely fitted - risk of failure, load secured to or by anchorage and includes body supports and outriggers	A load anchorage is damaged or not securely fitted to the vehicle. The integrity of the load anchorage is significantly compromised, there is an immediate risk of failure and a load is secured to or by the anchorage and includes body supports and outriggers.	Pink	For example, there is significant damage such as broken or cracked side or pocket rails, supports, or welds; bent or distorted rails where hooks or fittings attach; or nicked, gouged, worn, twisted, bent or stretched floor rings. Requires certification (LT400).
3	EL08	Load anchorage	Load anchorage damaged/not securely fitted - risk of failure, no load secured to or by anchorage	A load anchorage is damaged or not securely fitted to the vehicle. The integrity of the load anchorage is significantly compromised, and there is an immediate risk of failure but a load is not secured to or by the anchorage.	Green 2	Requires certification (LT400).
3	EL09	Load anchorage	Load anchorage damaged/not securely fitted - load secured to or by anchorage	A load anchorage is damaged or not securely fitted to the vehicle. The integrity of the load anchorage may be compromised. A load is secured to or by the anchorage.	Green	There are no alternative anchor points available. Load must be re-secured before continuing. Requires certification (LT400).
3	EL10	Load anchorage	Load anchorage damaged/not securely fitted - no load secured to or by anchorage	A load anchorage is damaged or not securely fitted to the vehicle. The integrity of the load anchorage may be compromised but there is no immediate risk of failure. No load is secured to or by the anchorage.	Green 2	Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	EL11	Load anchorage	Stock crate door does not stay closed/not securely fitted/damaged/not properly maintained – any condition of loading	A stock crate door does not stay closed when shut, is not securely fitted to the vehicle, not properly maintained, or damaged. There is significant risk of the door failing in any condition of loading.	Pink	Must be re-secured before continuing.
3	EL13	Load anchorage	Vehicle not fitted with load anchorage certification label	A vehicle fitted with load anchorages is not fitted with a certification label, or the certification label is invalid, illegible, incomplete or incorrect (eg the number of load anchorages does not match the number stated on the certification label).	Green	Refer to the <i>VIRM: In-service certification (WoF and CoF)</i> for certification label requirements. Requires certification (LT400).
3	EL16	Load Anchorage	Anchorage in use not specified on LA Tag	Anchorage not specified on load anchorage tag and in use.	Green 2	Load must be re-secured to a certified load anchorage before continuing.
3	EL20	Load Anchorage	Bolster locking pins – missing or out of shape	Any bolster assembly locking pins are missing, damaged, bent or deformed.	Pink	
3	EL22	Load Anchorage	ID tag showing Incorrect number of points	ID tag has the incorrect number of points showing on it.	Green	Requires certification (LT400).
3	EL26	Load Anchorage	Rope rails damaged	Rope rails are damaged, detached at any point or cracked.	Pink	Requires certification (LT400). May be QP if not in use.
3	EL29	Load anchorage	Bolster not securely fitted or attachment is damaged – immediate risk of failure, vehicle loaded	A bolster is not securely fitted to the vehicle, or a bolster or bolster attachment is damaged; the integrity of the bolster or bolster attachment is significantly compromised, there is an immediate risk of failure.	Pink	For example, there is significant damage such as cracks, deformation or corrosion, or excessive wear. Requires certification (LT400).
3	EL31	Load anchorage	Bolster not securely fitted or attachment is damaged – no immediate risk of failure	A bolster is not securely fitted to the vehicle, or a bolster or bolster attachment is damaged; the integrity of the bolster or bolster attachment may be compromised but there is no immediate risk of failure.	Green	Requires certification (LT400).
3	EL33	Load anchorage	Sliding bolster – no locking mechanism	A sliding bolster that is required to be locked does not have a locking mechanism or it is not utilised.	Pink	Requires certification (LT400).
3	EL37	Load anchorage	Load anchorage twist lock is damaged/not securely fitted or does not lock effectively.	A load anchorage twist lock is damaged, not securely fitted to the vehicle or does not lock positively (detents are not engaging positively). The integrity of the load anchorage may be compromised and there is an immediate risk of failure.	Pink	Requires certification (LT400). May be QP if unladen.

PSV ONLY LOAD ANCHORAGES LEVEL 3

3	IR01	PSV only load anchorages	No luggage containment facilities – risk of injury by loose items or freight	A vehicle carrying large or heavy items of luggage or freight is not fitted with appropriate containment facilities such as under floor lockers or cargo barriers, and there is a significant risk of occupants being injured by loose items of luggage or freight, eg in the event of an emergency stop or an accident.	Pink	
3	IR02	PSV only load anchorages	No luggage containment facilities – no risk of injury	A vehicle carrying large or heavy items of luggage or freight is not fitted with appropriate containment facilities such as under floor lockers or cargo barriers, but there is no significant risk of injury.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	IR03	PSV only load anchorages	Roof rack not rated and certified - loaded	A roof rack is not rated and certified by an NZTA approved certifier and roof rack is loaded.	Pink	Requires certification (LT400). Note: This does not include light bars.
3	IR04	PSV only load anchorages	Roof rack not rated and certified - unloaded	A roof rack is not rated and certified by an NZTA approved certifier but roof rack is not loaded.	Green 2	Requires certification (LT400).
3	IR05	PSV only load anchorages	Roof rack insecure - detachment imminent	A roof rack is not securely fitted and detachment is imminent.	Pink	May be QP if unloaded before continuing.
3	IR07	PSV only load anchorages	Roof rack insecure - unlikely to detach	A roof rack is not securely fitted but unlikely to detach.	Green 2	
3	IR08	PSV only load anchorages	Roof rack missing compliance plate or required compliance plate information	A roof rack is not fitted with a compliance plate or a compliance plate that does not contain the required information.	Green	Refer to the VIRM: In-service certification (WoF and CoF) for roof rack compliance plate requirements. Requires certification (LT400).
3	IR09	PSV only load anchorages	Reference to roof rack not on CoL	A roof rack is fitted and there is no reference to the roof rack on the Certificate of Loading.	Green	Must be unloaded before continuing. Requires certification (LT400).

EQUIPMENT LOCKING DEVICES LEVEL 3

3	EF01	Equipment locking devices	Sliding axle set/chassis/outrigger does not have effective locking device - may be a risk to other road users	A sliding axle set or sliding chassis, or an outrigger fitted to a vehicle does not have an effective locking device by visual inspection and there may be significant risk to other road users.	Pink	
3	EF05	Equipment locking devices	Sliding axle or 5th wheel end stops not fitted or damaged	A sliding axle set or adjustable 5th wheel does not have end-stops (stops never fitted or missing) or they are damaged.	Pink	
3	OL01	Equipment locking devices	A required alarm is not fitted or does not operate	A required locking device alarm is not fitted or does not operate.	Pink	
3	OL03	Equipment locking devices	A required swivel crane locking device not compliant Class NB & NC	A required swivel crane locking device is not fitted, not readily seen or does not have an alarm fitted, or is not locking when the landing leg is not in a fully retracted position (NB and NC vehicles) or poses a significant risk to other road users (specify the risk in notes).	Pink	

EXTERNAL FITTINGS LEVEL 3

3	EB02	External fittings	Damaged or deteriorated part - safety risk	A damaged or deteriorated part of the vehicle poses a significant safety risk to other road users.	Pink	
3	EB03	External fittings	External fitting/damaged or deteriorated part affects driver's view or control	An external fitting, or a damaged or deteriorated part of the vehicle, adversely affects the driver's view or control of the vehicle.	Pink	For example, there is significant damage such as broken or cracked side or pocket rails, supports, or welds; bent or distorted rails where hooks or fittings attach; or nicked, gouged, worn, twisted, bent or stretched floor rings.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
3	EF09	External fittings	External ornamental fitting protrudes - safety risk	An external ornamental fitting protrudes from the vehicle in a way that poses a significant safety risk to other road users.	Pink	
3	EF10	External fittings	External functional fitting - risk of injury to other road users - can't be rectified	An external functional fitting is maintained in a way that poses a risk of injury to other road users and this cannot be rectified.	Pink	Examples of functional fittings are bull bars, winches, tow balls and side racks for ladders. QP if rectified/made safe before continuing.

LEVEL 5

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
CAB LEVEL 5						
5	EC01	Cab	Corrosion hole in pillars or around door hinges or cab	Corrosion which is within 150mm of the top of the A-pillar has resulted in a hole >50mm in the cab pillars or around the door hinges or any other structural area of the cab.	Green	Requires certification (LT400).
5	EC02	Cab	Corrosion, cracks or damage to cab mounts	Corrosion, cracks or damage to any primary cab mount or support.	Green	Requires certification (LT400).
5	EC03	Cab	Corrosion in the cab	Corrosion that has resulted in a hole greater than 50mm in any other part of the cab.	Green	Requires certification (LT400).
5	ED01	Cab	No ready means of entrance and exit	There is no ready means of entrance and exit for vehicle occupants.	Pink	
5	ED02	Cab	Door damaged/deteriorated or not securely fitted/retention system missing - detachment imminent	A door is not securely fitted by way of an appropriate door retention system, or any part of a door retention system is missing or the door is significantly damaged or deteriorated. Detachment is imminent or there is a significant risk of the door operating inadvertently.	Pink	
5	ED03	Cab	Door not securely fitted/retention system missing - detachment not imminent	A door is not securely fitted by way of an appropriate door retention system, or any part of a door retention system is missing or the door is damaged or deteriorated. Detachment is not imminent and there is no significant risk of the door operating inadvertently.	Green 2	
5	ED04	Cab	Door cannot be opened, cannot be closed or does not stay closed	A door cannot be opened from the inside, cannot be closed, or does not stay closed when shut.	Pink	Except if fitted with a child safety lock and the child safety lock is activated, and for vehicles used to carry legally detained persons.
5	ED05	Cab	Door cannot be operated easily - excessive force required	Operation of the door requires excessive force.	Green 2	
5	ED06	Cab	Door cannot be operated easily	Door cannot be operated easily but excessive force not required.	Green 2	
5	IK01	Cab	No operational horn fitted	There is no operational horn in the vehicle or a required horn is not fitted.	Green 2	
5	IK03	Cab	Control of a horn not within reach of driver	The control of a horn is not within reach of the driver.	Green 2	
5	IK04	Cab	Horn cannot be heard from sufficient distance	A horn cannot be heard from a distance of at least 100m.	Green 2	
5	IK05	Cab	Vehicle is fitted with a bell, siren or whistle	A vehicle is fitted with a bell, siren or whistle.	Green 2	Refer to VIRM: In-service certification (WoF and CoF) for exemptions.
5	IS01	Cab	No seat for driver	A vehicle is not fitted with a seat for the driver and the vehicle cannot be operated safely.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	IS02	Cab	Driver's seat not securely fitted - detachment imminent	The driver's seat is not securely fitted to the vehicle and detachment is imminent, or there is a significant risk of the seat detaching under the load, eg in the event of an emergency stop or accident.	Pink	
5	IS03	Cab	Other seat not securely fitted - detachment imminent	A seat other than the driver's seat is not securely fitted to the vehicle and detachment is imminent, or there is a significant risk of the seat detaching under the load (eg in the event of an emergency stop or accident).	Green	
5	IS04	Cab	Drivers seat damaged, loose or excessively worn	A driver's seat is not securely fitted to the vehicle; detachment is not imminent but the seat structure or mounting points are weakened through damage or deterioration.	Green 2	
5	PS01	Cab	Seat belt damaged/worn occupied seat	Seat belts are fitted and/or the seat belt anchorages are damaged or worn so they do not function correctly or are unsafe. Driver's seat or an occupied passenger seat.	Green	Requires certification (LT400).
5	PS02	Cab	Seat belt damaged/worn unoccupied seat	Seat belt and/or the seat belt anchorages for passenger are damaged or worn but the seat is not occupied.	Green 2	
5	PS03	Cab	Seat belt not fitted	Seat belt(s) are required but not fitted to a vehicle manufactured or first registered in NZ after 1 October 2003.	Green	
5	PS06	Cab	Brake pedal rubber ineffective	Brake pedal rubber missing or worn.	Green 2	
5	MEL1	Cab	Exhaust system leaks fumes into the cab or passenger compartment	An exhaust system does not comply with applicable requirements because it leaks fumes into the cab or passenger compartment and is unsafe.	Pink	

PSV CAB ONLY DEFECTS LEVEL 5

5	CD06	PSV only cab defects	An opened bodied vehicle does not have a permanent frame to protect occupant in a rollover	An opened bodied vehicle does not have a permanent frame to provide occupant protection in a rollover.	Pink	Applies to vehicles that entered service as PSVs on or after 1 January 2001.
5	CD05	PSV only cab defects	Open-bodied vehicle side wall of insufficient height	A side wall of an open-bodied vehicle does not extend at least 450mm above the uncompressed seat cushion.	Pink	
5	ED09	PSV only cab defects	PSV no door on LHS	A PSV is not provided with a doorway on the left hand side of the vehicle.	Pink	Does not apply to outdoor access vehicles and vehicles fitted with special features for the disabled.
5	ED10	PSV only cab defects	Heavy PSV passenger doorway on RHS or rear of vehicle	A heavy PSV is provided with a passenger doorway on the right hand side or the rear of the vehicle.	Pink	
5	ED11	PSV only cab defects	Doorway obstructed/<550mm wide	A doorway is obstructed or <550mm wide.	Green 2	
5	ED12	PSV only cab defects	Door locks automatically	A door locks automatically when it closes - or vehicle is moving.	Pink	
5	ED13	PSV only cab defects	Incorrect closing force of door	The closing force of a power-operated door is insufficient or excessive.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	ED14	PSV only cab defects	Door open warning device not fitted/not operational	A device warning the driver if a door (other than a door alongside the driver) is not properly closed is not fitted or not operational.	Green 2	Except if fitted with a child safety lock and the child safety lock is activated, and for vehicles used to carry legally detained persons.
5	ED15	PSV only cab defects	Emergency door controls not operational	Inside or outside emergency door controls are not operational.	Pink	Applies to vehicles that entered service as PSVs on or after 1 July 2000.
5	ED16	PSV only cab defects	Emergency door control instructions not affixed	Inside or outside emergency door control instructions are not affixed.	Green 2	
5	ED17	PSV only cab defects	Inside or outside emergency door signs not affixed	Inside or outside emergency door signs are not affixed to dedicated exits.	Pink	
5	EL01	PSV only cab defects	Vehicle body not securely fitted to chassis	The body of a chassis type vehicle is not securely fitted to the chassis.	Pink	
5	IA01	PSV only cab defects	No passenger ventilation system	A ventilation system is not fitted for passengers.	Green 2	Ventilation may be by way of window or roof openings, or by forced ventilation (fans).
5	IA02	PSV only cab defects	No independent driver ventilation system	An independent ventilation system is not available for the driver.	Green 2	Ventilation may be by way of window or roof openings, or by forced ventilation (fans).
5	IA03	PSV only cab defects	Window or roof openings cannot easily be opened and closed	Window or roof openings cannot easily be opened and closed.	Green 2	
5	IA04	PSV only cab defects	Forced ventilation system not operational/not effective/does not comply	A forced ventilation system is not operational, not effective or does not comply with applicable requirements.	Green 2	Refer to the VIRM: In-service certification (WoF and CoF) for details.
5	IA05	PSV only cab defects	Forced ventilation system does not minimise risk of injury to occupants	A forced ventilation system, including any heating or air conditioning system, is not designed, constructed and maintained so that the risk of injury to occupants is minimised.	Green 2	
5	IA06	PSV only cab defects	Demisting system not fitted/not effective	A vehicle is not fitted with a demisting system for the windscreen and the front side windows, or system is not effective.	Green	
5	ID01	PSV only cab defects	Required panel, guard rail or armrest is not fitted	A required panel, guard rail or armrest is not fitted.	Green 2	
5	ID02	PSV only cab defects	Folding seat for crew does not fold away/cannot be secured	A folding seat for crew members does not comply with applicable requirements because the seat does not fold away automatically when unoccupied or cannot be secured in the fold-away position.	Green 2	
5	ID03	PSV only cab defects	Folding seat for crew - signage not fitted	A folding seat for crew members does not comply with applicable requirements because a sign identifying the seat as a crew seat and advising that the seat must be secured in the fold-away position when not in use is not fitted.	Green 2	
5	ID04	PSV only cab defects	Dangerous fittings or protrusions	There are fittings or protrusions in the passenger compartment that could cause injury to occupants.	Green	
5	ID05	PSV only cab defects	Required padding not fitted	Required padding is not fitted.	Green 2	Refer to the VIRM: In-service certification (WoF and CoF) for padding requirements.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	IDO6	PSV only cab defects	Holds or grips not fitted	Holds or grips are not fitted.	Green 2	
5	IE01	PSV only cab defects	Required aisle not available or obstructed by a permanent fitting	A required aisle is not available or is obstructed by a permanent fitting.	Pink	
5	IE03	PSV only cab defects	Aisle does not comply with dimensional requirements	An aisle does not comply with dimensional requirements.	Pink	Refer to the VIRM: In-service certification (WoF and CoF) for dimensional requirements.
5	IE04	PSV only cab defects	Aisle steps, ramps, landings or handrails faulty	Aisle steps, ramps, landings or handrails are faulty or loose.	Green 2	
5	IE05	PSV only cab defects	Insufficient number of emergency exits	A vehicle does not have the required number of emergency exits.	Pink	
5	IE06	PSV only cab defects	Emergency exit not readily accessible	An emergency exit is not readily accessible.	Green	
5	IE07	PSV only cab defects	Emergency exit difficult to operate	An emergency exit is difficult to operate or its operation requires excessive force.	Green	
5	IE08	PSV only cab defects	Emergency exit does not comply with dimensional requirements	A dedicated emergency exit does not comply with dimensional requirements.	Pink	
5	IE09	PSV only cab defects	Emergency exit cannot be operated	A dedicated emergency exit cannot be operated from the inside or the outside of the vehicle.	Pink	Refer to the VIRM: In-service certification (WoF and CoF) for emergency exit requirements.
5	IE10	PSV only cab defects	Emergency exit opens inwards or is hinged on rear edges	A dedicated emergency exit opens inwards or if hinged and fitted on either side of the vehicle, is hinged on its rear edges.	Pink	
5	IE11	PSV only cab defects	Locking emergency exit - no warning device	A dedicated emergency exit equipped with locks does not have a device fitted warning the driver that the exit is locked when the vehicle's engine is running.	Pink	
5	IE12	PSV only cab defects	Emergency exit window not made from readily breakable toughened glass	An emergency exit window intended to be broken in an emergency is not made from readily breakable toughened glass.	Pink	
5	IE13	PSV only cab defects	Emergency exit window has no special-purpose hammer fitted	A dedicated emergency exit window intended to be broken in an emergency does not have a special-purpose device fitted on or near to the window.	Pink	
5	IE14	PSV only cab defects	Emergency exit window special-purpose hammer(s) missing	A dedicated emergency exit window intended to be broken in an emergency is missing some special-purpose hammers.	Green 2	
5	IE15	PSV only cab defects	A required emergency exit window special-purpose hammer tampering alarm not fitted/not operational	An alarm warning the driver of any tampering with the emergency exit window special-purpose hammer is not fitted or not operational.	Green 2	Not required for button type hammers.
5	IE16	PSV only cab defects	Emergency exit window special-purpose hammer operating instructions missing	Instructions relating to the operation of the dedicated emergency exit window special-purpose hammers are not fitted.	Green	
5	IE17	PSV only cab defects	Emergency exit window modified - affects operation of exit	A dedicated emergency exit window is modified in a way that adversely affects the operation of the emergency exit (eg a window intended to be broken or removed in an emergency is covered with an overlay).	Pink	Exterior advertising/branding over exit windows must break easily if needed or feature minimum 6mm wide cut to ensure breakaway in emergency.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	IF01	PSV only cab defects	Large PSV – fire extinguisher not fitted/ not operational	A PSV with more than 12 seating positions is not fitted with a fire extinguisher, or a fitted fire extinguisher is not operational.	Green	A fire extinguisher is required for each compartment of more than 12 passengers. Double-decker buses and articulated buses comprise two compartments and therefore require at least two fire extinguishers, at least one in each compartment.
5	IF02	PSV only cab defects	Fire extinguisher not fitted near the driver or not clearly visible	A required fire extinguisher is not fitted near the driver or is not clearly visible to passengers or does not have sufficient clear signage directing passengers to it.	Green 2	
5	IF03	PSV only cab defects	Fire extinguisher not of appropriate size	A required fire extinguisher is not of a size and type appropriate for the vehicle, taking into consideration the vehicle's construction materials and the fuel used by the vehicle.	Green 2	
5	IF04	PSV only cab defects	Fire extinguisher not properly maintained	A required fire extinguisher is not properly maintained (eg the extinguisher is not sealed, not inspected as required, or not fitted with operating instructions).	Green 2	Inspected as recommended by the fire extinguisher manufacturer or, if the manufacturer's recommendation is not available, every six months. Pressure gauge on stored pressure extinguishers must be in green range.
5	IG01	PSV only cab defects	Heavy PSV step or ramp not fitted or non-compliant	A heavy PSV is not fitted with a required step or ramp ¹ , or a required step or ramp does not comply with dimensional requirements ² due to recent and obvious modifications since last CoF.	Green	1. A heavy PSV must have a step or ramp fitted if the floor level at the doorway is >410mm above the ground. 2. Min. 550mm wide and 200mm deep – refer to the VIRM: In-service certification (WoF and CoF) for further details.
5	IG02	PSV only cab defects	Step or ramp missing or damaged, significant safety risk	A step or ramp is not structurally sound, not securely fitted, missing, not operational, damaged or deteriorated, and there is significant safety risk in entering or leaving the vehicle.	Pink	
5	IG03	PSV only cab defects	Worn or absent slip-resistant tread surfaces – risk of slipping	A step or ramp does not have slip-resistant tread surfaces or the slip-resistant surfaces are worn, and there is a risk of people slipping (eg in wet conditions).	Green 2	
5	IG04	PSV only cab defects	Power-operated retractable step operation separate from corresponding door	The operation of a power-operated retractable step is separate from the operation of the corresponding door.	Pink	
5	IG05	PSV only cab defects	A power-operated retractable step can be operated with a person standing on the step	A power-operated retractable step can be operated with a person standing on the step.	Green	
5	IG06	PSV only cab defects	A vehicle with a power-operated retractable step can be operated with the step extended	A vehicle with a power-operated retractable step can be operated with the step extended.	Pink	
5	IG07	PSV only cab defects	A power-operated retractable step protrudes	A power-operated retractable step protrudes >10mm beyond the body line of the vehicle when retracted.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	IJ01	PSV only cab defects	Emergency communication system not fitted/not operational	A vehicle in which communication between passengers and the driver is restricted does not have a system for communication in emergencies fitted or a fitted system is not operational.	Green 2	
5	IL01	PSV only cab defects	Doorway, step, ramp or aisle not adequately illuminated	A doorway, step, ramp or aisle is not fitted with an interior lamp or the interior lamp fitted is not operational or does not provide adequate illumination.	Green 2	
5	IL02	PSV only cab defects	Interior lamp interferes with driver's vision	An interior lamp interferes with the driver's vision when the vehicle's doors are closed.	Green 2	
5	IS05	PSV only cab defects	Seat fitting obstructive	The fitting of a seat obstructs the view of the driver or restricts access to an emergency exit or the movement of passengers.	Pink	
5	IS06	PSV only cab defects	Seat or seat spacing dimensions do not comply	A seat or the spacing of seats does not comply with dimensional requirements.	Green 2	Refer to the VIRM: In-service certification (WoF and CoF) for details.
5	IS07	PSV only cab defects	Folding seat for passengers obstructive	A folding or tilting seat for passengers in a heavy PSV does not comply with applicable requirements because the seat is fitted in the stairwell in front of the front axle, or there is no unobstructed doorway in front of the axle, or the seat does not lock automatically in either raised or lowered position, or the design is unsafe or there is a risk of injury to passengers.	Pink	
5	IS08	PSV only cab defects	Folding seat for passengers - instructions not fitted	A folding seat for passengers in a heavy PSV does not comply with applicable requirements because instructions relating to the operation of the seat are not clearly displayed.	Green 2	
5	IS09	PSV only cab defects	Driver's seat cannot be accessed easily	A driver's seat cannot be accessed easily.	Green 2	
5	IS10	PSV only cab defects	A driver's seat cannot be adjusted	A driver's seat cannot be adjusted.	Green 2	
5	IS11	PSV only cab defects	Seat fitted to left of driver's seat - encroaching in operating space	A seat is fitted to the left of the driver's seat and there is encroachment into the driver's operating space.	Pink	
5	IW15	PSV only cab defects	Heavy PSV upper deck front screen of insufficient height	A heavy PSV with an upper deck does not have a front screen that extends at least 1m above the uncompressed seat cushion and 1.95m above the floor level.	Green	
5	IW16	PSV only cab defects	Driver's field of view obscured - prevents safe operation	The driver's field of view to the front, left or right is obstructed, and the obstruction significantly impairs the driver's field of view and does not allow for the safe operation of the vehicle.	Pink	Drivers view is obstructed by some modification. Refer to the VIRM: In-service certification (WoF and CoF) for details.
5	IW17	PSV only cab defects	Driver's field of view obscured - impairs safe operation	The driver's field of view to the front, left or right is obstructed, and the obstruction reduces the driver's field of view and makes the safe operation of the vehicle difficult (eg the driver has to lean forward in order to gain a view to the left or right).	Green	
5	IW18	PSV only cab defects	Driver's view of vicinity of passenger doors obstructed	The driver's field of view of the interior or the exterior vicinity of the passenger doors is obstructed.	Green	The view may be direct or indirect, ie mirrors and CCTV systems may be used.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	MF01	PSV only cab defects	Fuel tank not fitted with a fuel venting valve	A fuel tank is not fitted with a fuel venting valve that releases any pressure without fuel overflowing and prevents fuel spillage, even in the event of a rollover.	Green 2	Applies to vehicles that entered service as a PSV on or after 01/07/00.
5	MF02	PSV only cab defects	Fuel cap seals damaged or not effective	Fuel cap seals are damaged or not effective as indicated by fuel spill traces.	Green 2	
5	MP01	PSV only cab defects	Exhaust system does not comply with applicable requirements	An exhaust system does not comply with applicable requirements because the tail pipe outlet is fitted on the left hand side of the vehicle or any part of the exhaust system poses a risk of passengers or other road users being burnt.	Green 2	
5	IE18	PSV only cab Defects	Entrance and emergency door signage	An entrance or emergency exit door signage is missing or illegible.	Green 2	
5	IEY1	PSV only cab defects	Emergency Exit signage incomplete or insufficient	The emergency exit signage does not meet requirements and is too small, incorrect colour or incomplete.	Green 2	

VISION LEVEL 5

5	EG01	Vision	Glazing does not comply with approved standard/trade name	A piece of glazing does not comply with an approved standard or trade name.	Green 2	
5	EG02	Vision	Windscreen not securely fitted	A windscreen is not securely fitted.	Green	
5	EG03	Vision	Glazing (other than windscreen) not securely fitted	A piece of glazing other than the windscreen is not securely fitted.	Green 2	
5	EG04	Vision	Windscreen/front side window damaged – does not compromise driver's vision/ strength of glazing/wiper operation	A windscreen or front side window is damaged. The damage does not significantly impair the driver's vision, does not compromise the strength of the glazing and does not impair the operation of the windscreen wipers.	Green 2	
5	EG05	Vision	Glazing (not windscreen) damaged compromising strength	Any piece of glazing other than the windscreen is damaged significantly compromising the strength of the glazing.	Pink	
5	EG06	Vision	Glazing (not windscreen) damaged – does not compromise strength	Any piece of glazing other than the windscreen is damaged significantly compromising the strength of the glazing.	Green 2	
5	EG07	Vision	Tinted overlay fitted – overall VLT <35% in CVA	A windscreen is fitted with a tinted overlay that reduces the overall VLT to <35% in the Critical Vision Area.	Pink	
5	EG08	Vision	Tinted overlay fitted – VLT of windscreen <70%/front side window <35%	A tinted overlay is fitted that reduces the overall VLT of a windscreen to <70% or a front side window to <35%.	Green	Refer to the VIRM: In-service certification (WoF and CoF) for details.. Windscreen can not have tinted overlay.
5	EG09	Vision	Glazing modification (not tinting) significantly impairs driver's vision/ compromises strength of glazing/causes annoyance to other road users	A modification to a piece of glazing that significantly impairs the driver's vision, compromises the strength of glazing, or causes annoyance to other road users is fitted (other than tinted overlay).	Green	eg mirrored overlay.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	EG10	Vision	Glazing modification (not tinting) does not comply with applicable requirements; does not compromise strength of glazing or affect other road users	A modification to a piece of glazing (other than tinted overlay) does not comply with applicable requirements, but does not compromise the strength of the glazing or affect other road users.	Green 2	
5	EM01	Vision	RHS rear vision mirror damaged	Right-hand side rear vision mirror is missing or mirror glass is broken or otherwise damaged.	Green 2	
5	EM03	Vision	LHS rear vision mirror damaged	Left-hand side rear vision mirror is cracked, damaged or insecure, which reduces the driver's vision through the mirror and is not on a PSV.	Green 2	
5	II01	Vision	A required wiper is not fitted or operational (in rain)	An original equipment (OE) windscreen wiper is not fitted on a vehicle required to be fitted with a windscreen wipe system or a fitted windscreen wiper is not operational or only works intermittently. The vehicle is operated in rain, with no wiper fitted to clear the windscreen in front of the driver or the driver's vision is impaired.	Pink	Must be capable of keeping an adequate area of the windscreen clean and clear for vehicle's safe operation.
5	II02	Vision	A required OE wiper not fitted (no rain)	An original equipment (OE) windscreen wiper is not fitted on a vehicle required to be fitted with a windscreen wipe system or a fitted windscreen wiper is not operational or only works intermittently. The vehicle is operated when not raining, with no wiper fitted to clear the windscreen in front of the driver .	Green 2	Must be capable of keeping an adequate area of the windscreen clean and clear for vehicle's safe operation.
5	II06	Vision	Wiper not effective (no rain)	A windscreen wiper is not effective (no rain).	Green 2	Must be capable of keeping an adequate area of the windscreen clean and clear for vehicle's safe operation.
5	II07	Vision	Wiper not securely fitted (in rain, detachment imminent)	A windscreen wiper is not securely fitted. The vehicle is operated in rain and detachment of the wiper that clears the windscreen in front of the driver is imminent.	Pink	Must be capable of keeping an adequate area of the windscreen clean and clear for vehicle's safe operation.
5	II08	Vision	Wiper not securely fitted (no rain, detachment imminent)	A windscreen wiper is not securely fitted. The vehicle is not operated in rain and detachment of the wiper that clears the windscreen in front of the driver is imminent.	Green 2	Must be capable of keeping an adequate area of the windscreen clean and clear for vehicle's safe operation.
5	II09	Vision	Wiper not securely fitted (detachment not imminent)	A windscreen wiper is not securely fitted. The vehicle is not operated in rain and detachment of the wiper is not imminent.	Green 2	Must be capable of keeping an adequate area of the windscreen clean and clear for vehicle's safe operation.
5	II14	Vision	Wiper not working	Windscreen wiper is missing or not working, and it is raining. Applies to driver's side wiper or other wiper where drivers vision is not impaired.	Green 2	
5	IM01	Vision	Required rear-view mirror not fitted	A required rear-view mirror is not fitted.	Green	
5	IM02	Vision	Rear-view mirror does not provide driver with adequate view to rear of vehicle/ load/trailer or is not adjustable	A rear-view mirror does not provide the driver with an adequate and clear view to the rear of the vehicle and, if applicable, its load, and any trailer and its load or is not adjustable or does not maintain its adjustment.	Green 2	
5	IM04	Vision	Rear-view mirror not securely fitted, detachment imminent	A rear-view mirror is not securely fitted. Detachment is imminent.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	IM05	Vision	Rear-view mirror not securely fitted, detachment not imminent	A rear-view mirror is not securely fitted. Detachment is not imminent.	Green 2	
5	IV01	Vision	Required sun visor not fitted	A required sun visor is not fitted, not operational or "effective" or is not securely fitted and detachment is imminent.	Green	
5	IV04	Vision	Sun visor not securely fitted, detachment not imminent	A sun visor cannot be adjusted from the driver's seat, is not securely fitted but detachment is not imminent or is in a position that partially or fully impedes the driver's vision and cannot be rectified immediately by the driver if requested to do so.	Green 2	
5	IW01	Vision	Windscreen not made of laminated glass. Any other glazing not made of safety glass or glazing does not comply with approved standards/trade name	A windscreen is not made of laminated glass, or any other piece of glazing is not made of safety glass or does not comply with an approved standard or trade name.	Green 2	
5	IW02	Vision	Windscreen VLT <35%	A windscreen has a VLT of <35%.	Pink	
5	IW04	Vision	Windscreen/front side window obstructed - driver's vision significantly impaired.	A windscreen/front side window is obstructed. Driver's vision significantly impaired.	Pink	
5	IW05	Vision	Windscreen/front side window obstructed - driver's vision not significantly impaired	A windscreen/front side window is obstructed. Driver's vision not significantly impaired.	Green 2	
5	IW06	Vision	Windscreen/front side window damage or repairs compromising driver's vision/strength of glazing/windscreen wiper operation	A windscreen or front side window is damaged. The damage or subsequent repairs significantly impairs the driver's vision or compromises the strength of the glazing or the operation of the windscreen wipers.	Pink	1. Any damage within the critical vision area (CVA) other than minor scratching or surface pitting is deemed to significantly impair the driver's vision. (check VIRM: In-service certification (WoF and CoF) for details on CVA 2. Any damage that is outside the repair limit.
5	IW07	Vision	Wire mesh windscreen guard does not comply	A wire mesh windscreen stone guard extends higher than the top of the steering wheel and is more than 225mm above the bottom of the windscreen, its mesh size is less than 12mm, or there is no space between the stone guard and the windscreen.	Green 2	
5	IW08	Vision	Overlay applied along lower windscreen above highest point of the steering wheel	An overlay is applied along lower edge of windscreen above the highest point of the steering wheel in the uppermost position.	Green 2	
5	IW09	Vision	W/screen sticker or overlay or mesh reduces driver's vision	Windscreen has a sticker or overlay, mesh or stone guard, which, due to its dark colour, pattern or other reasons, noticeably reduces the driver's vision.	Green 2	
5	IW10	Vision	W/screen sticker or overlay vision not impaired	Windscreen has a sticker or overlay that is more than 100mm wide measured from the side edge, an anti-glare band that is more than 200mm wide measured from the top edge of the windscreen, or a plastic stone guard overlay that is higher than the highest point of the steering wheel. Driver's vision not significantly impaired. Refer to Appendices.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	IW12	Vision	W/screen damage not impairing driver's vision	Windscreen has a significant damage not more than 500mm long, side to side crack, bullseye or other concentrated damage with a diameter more than 100mm, etc but it does not impair the driver's vision due to the location of the damage which may include minor CVA damage.	Green 2	
5	IW13	Vision	W/screen insecure for >1/3 circumference	Windscreen is insecure either due to major deterioration, loss of its rubber bedding or the bonding material or a major corrosion of the windscreen frame that extends to more than 1/3 of the windscreen circumference.	Green	
5	IW14	Vision	W/screen insecure for <1/3 circumference	Windscreen is insecure either due to major deterioration or loss of its rubber bedding or the bonding material, or a major corrosion of the windscreen frame that extends to less than 1/3 of the windscreen circumference.	Green 2	

PSV ONLY VISION DEFECTS LEVEL 5

5	EM05	PSV only vision defects	PSV with more than 1 LHS door and no mirror or mirror not useable	PSV left-hand side rear view mirror not fitted when passengers are carried on a school bus/city bus with more than one left entrance/exit door (and other vehicles where it is apparent that the vehicle has been operated for an extended period of time with no left rear view mirror) or the LHS rear view mirror is unuseable.	Pink	
5	EM06	PSV only vision defects	PSV LHS rear vision mirror not usable	PSV left-hand side rear vision mirror is missing or mirror glass is completely broken or otherwise damaged, therefore the driver cannot use it.	Green	
5	EM08	PSV only vision defects	PSV LHS rear vision cracked or damaged	External left hand side rear vision mirror cracked or damaged but still usable.	Green 2	
5	IM06	Vision	Rear-view mirror does not provide adequate view to rear of interior/exterior passenger doors	A rear-view mirror does not provide the driver with an adequate and clear view to the rear of the interior and the exterior vicinity of the doors used for entry and exit by passengers.	Pink	PSVs must have left and right external mirror. No requirement for internal.
5	IM07	PSV only vision defects	PSV internal rear vision mirror is insecure	PSV internal rear vision mirror that is fitted and is insecure.	Green 2	
5	IN01	Vision	TV set does not comply	A television set is fitted where it is directly visible to the driver and, while the vehicle is in motion, the set can be used for purposes other than providing a view to the rear of the vehicle, navigation, or safe operation and control of the vehicle; or screen only displays text and any change is controlled manually by driver; or PSV Rule complied with in a PSV.	Green 2	

SPEEDO LEVEL 5

5	IO03	Speedo	Speedometer not operational/cannot be read easily - disconnected/damaged	A speedometer is not operational or cannot be read easily and cable is disconnected or damaged.	Green 2	Note: A GPS is not an acceptable speedo.
5	IO04	Speedo	Speedometer inaccurate	A speedometer is inaccurate.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	IO05	Speedo	Speedo missing or damaged	Speedo is missing from the driver's console position or damaged.	Green 2	
5	IO06	Speedo	Speedo needle jammed	Speedo needle is jammed or not able to indicate speed of vehicle.	Green 2	
5	IO07	Speedo	Cable disconnected or damaged	Speedo cable is disconnected or damaged.	Green 2	
5	IO08	Speedo	Speedo does not work - driver admits	Speedo does not work and driver admits that it does not.	Green 2	
5	IO09	Speedo	Speedo cannot be seen from drivers position	Speedo cannot be seen from driver's position.	Green 2	

LIGHTING LEVEL 5

For additional guidance see *Appendix 3: Truck lights* and *Appendix 4: Trailer lights*.

5	LA01	Lighting	One (front)/more than two (front/rear) fog lamps fitted	Only one (front), or more than two (front or rear) fog lamp(s) is/are fitted.	Green	
5	LA02	Lighting	One/more than two additional high beam headlamps fitted	Only one, or more than two, additional high beam headlamp(s) is/are fitted.	Green 2	
5	LA03	Lighting	Fog lamp to the rear not red	A fog lamp to the rear is not red.	Green	
5	LA04	Lighting	Front fog lamp not dipped	A front fog lamp is not dipped.	Green	
5	LA05	Lighting	additional headlamp not operational or not properly connected.	An additional headlamp is not operational, works intermittently, flashes, or flickers when tapped. An additional high beam headlamp is not connected so that it extinguishes when the driver switches the OE headlamps from high beam to low beam.	Green 2	Flashing headlamps are permitted on Police vehicles, ambulances, fire engines, some other emergency service vehicles and some load pilot vehicles - Refer to the VIRM: In-service certification (WoF and CoF) for details.
5	LA06	Lighting	Foot lamp not permanently dipped	A foot lamp is not permanently dipped.	Green 2	
5	LA07	Lighting	Additional high beam headlamp out of alignment	An additional high beam headlamp is out of alignment.	Green 2	Applies only to cases where the alignment of low beam headlamps is such that there is a significant risk of dazzling or blinding oncoming traffic.
5	LA08	Lighting	Additional high beam headlamp not properly connected	An additional high beam headlamp is not connected so that it extinguishes when the driver switches the OE headlamps from high to low beam.	Green 2	
5	LA09	Lighting	Additional headlamp emits colour other than white or amber (not red) or has unequal light emission.	An additional headlamp emits light of a colour other than white or amber (but not red in colour) Additional headlamps on either side do not have approximately equal light output.	Green 2	
5	LA10	Lighting	Additional headlamp emits red light	An additional headlamp emits light of a colour other than white or amber (eg - red).	Pink	For vehicles fitted with additional headlamps, refer to Additional headlamps (LA01 - LA19).
5	LA11	Lighting	Additional headlamp on either side do not have approx. equal light output	Additional headlamp on either side do not have approximately equal light output.	Green 2	
5	LA12	Lighting	Additional headlamp not securely fitted (detachment imminent)	An additional headlamp is not securely fitted (detachment imminent).	Green	Must be reattached or removed before continuing.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	LA13	Lighting	Additional headlamp not securely fitted (detachment not imminent)	An additional headlamp is not securely fitted (detachment not imminent).	Green 2	
5	LA14	Lighting	Additional headlamp that replaces the OE headlamps damaged cover or obscured or damaged cover.	An additional headlamp that replaces the OE headlamps when in use is damaged, eg the lens is damaged or missing, water is in the lamp, or the reflector is deteriorated.	Green 2	
5	LA15	Lighting	Additional headlamp that does not replace OE headlamps damaged or obscured or damaged cover.	An additional headlamp (that does not replace the OE headlamps when in use) is damaged, eg the lens is damaged or missing, water is in the lamp, or the reflector is deteriorated.	Green 2	
5	LA16	Lighting	Additional high beam headlamp that replaces the OE headlamps when in use is obscured.	Additional high beam headlamp that replaces the OE headlamps when in use is obscured.	Green	
5	LA17	Lighting	Additional high beam headlamp that does not replace the OE headlamps when in use is obscured.	Additional high beam headlamp that does not replace the OE headlamps when in use is obscured.	Green 2	
5	LA18	Lighting	Additional headlamp that replaces the OE headlamps fitted with a cover that is opaque/damaged.	An additional headlamp that replaces the OE headlamps is partially or fully fitted with a cover that is opaque, tinted, damaged or deteriorated.	Green 2	
5	LA19	Lighting	Additional headlamp that does not replace OE headlamps fitted with opaque/damaged cover.	An additional headlamp that does not replace OE headlamps when in use is partially or fully fitted with a cover that is opaque, tinted, damaged or deteriorated.	Green 2	
5	LB01	Lighting	More than two reversing lamps fitted	More than two reversing lamps are fitted.	Green 2	
5	LB02	Lighting	Reversing lamp works intermittently	A reversing lamp works intermittently, flashes, or flickers when tapped.	Green 2	
5	LB03	Lighting	Reversing lamp/warning operates without reverse gear engaged or if switched independently of reverse gear	A reversing lamp or warning operates without the reverse gear engaged or, if switched independently of the reverse gear.	Green 2	
5	LB04	Lighting	Reversing lamp not white	A reversing lamp is not white in colour.	Green 2	
5	LF01	Lighting	A required headlamp is not fitted (during darkness)	A vehicle is operated with no mandatory (OE) headlamps fitted, not securely fitted and detachment is imminent or fitted but not operational, works intermittently, flashes or flickers when tapped. During the hours of darkness.	Pink	Flashing headlamps are permitted on Police vehicles, ambulances, fire engines, some other emergency service vehicles and some load pilot vehicles - Refer to the VIRM: In-service certification (WoF and CoF) for details.
5	LF02	Lighting	A required headlamp is not fitted, not securely attached or is not operational (during light)	A vehicle is operated with no mandatory (OE) headlamps fitted or fitted but not operational, works intermittently, flashes or flickers when tapped or high beam operates when headlights switched to low beam or headlamp is damaged. During the hours of daylight .	Green 2	
5	LF03	Lighting	More than 2 low beam headlamps fitted or operate on low beam.	More than 2 low beam headlamps fitted or operate on low beam.	Green	Not including any additional headlamps. Refer to Additional headlamps (LA01-LA10) for details on additional headlamps.
5	LF06	Lighting	Low beam headlamps do not illuminate the road up to 50m forwards	The low beam headlamps do not illuminate the road within a range of at least 50m in front of the vehicle.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	LF07	Lighting	Headlamps out of alignment (during darkness)	A vehicle is operated during the hours of darkness with misaligned headlamps that pose a significant safety risk to other road users.	Pink	Applies only to cases where the alignment of low beam headlamps is such that there is a significant risk of dazzling or blinding oncoming traffic.
5	LF08	Lighting	A headlamp is out of alignment (during daylight)	A vehicle is operated during the hours of daylight with misaligned headlamps that pose a significant safety risk to other road users.	Green 2	
5	LF09	Lighting	More than 2 headlamps operate on low beam	More than two headlamps operate on low beam.	Green 2	Not including any auxiliary headlamps. Refer to Auxiliary headlamps (LA01 – LA19) for details on auxiliary headlamps.
5	LF10	Lighting	More than 4 headlamps operate on high beam	More than four headlamps operate on high beam.	Green 2	Not including any auxiliary headlamps. Refer to Auxiliary headlamps (LA01 – LA19) for details on auxiliary headlamps.
5	LF12	Lighting	Headlamp emits colour other than white/amber	A headlamp emits light of a colour other than white or amber.	Green	
5	LF13	Lighting	Headlamps on either side do not have approx equal light output	Headlamps on either side do not have approx equal light output.	Green 2	
5	LF19	Lighting	A headlamp is fully obscured (during darkness)	A headlamp is fully obscured (during darkness).	Pink	Obscured, for example, by a bullbar.
5	LF20	Lighting	A headlamp is partially obscured (during darkness)	A headlamp is partially obscured (during darkness).	Green	
5	LF21	Lighting	A headlamp is fully/partially obscured (during day light)	A headlamp is fully/partially obscured (during day light).	Green 2	
5	LF22	Lighting	A headlamp cover affects light output (night)	A headlamp is partially or fully fitted with a cover that is opaque, tinted, damaged or deteriorated. The lamp's light output or pattern is affected (night).	Green	
5	LF23	Lighting	A headlamp cover affects light output (day)	A headlamp is partially or fully fitted with a cover that is opaque, tinted, damaged or deteriorated. The lamp's light output or pattern is affected (day).	Green 2	
5	LF26	Lighting	H/lamps low beam RHS not working at night	Headlamp right hand side low beam is not working at night.	Pink	
5	LF27	Lighting	H/lamp low beam LHS none at night but has forward side lamps	Headlamp left hand side low beam is not working but both forward facing side lamps are working during hours of darkness.	Green	
5	LF28	Lighting	Auxiliary lamp RHS doesn't dip	Working auxiliary headlight on the RHS, unless the driver can make the headlight dip.	Green 2	
5	LI01	Lighting	Whole direction indicator system does not operate	The whole direction indicator system does not operate.	Pink	
5	LI02	Lighting	Individual direction indicator/1 side of vehicle's indicators do not work	Individual direction indicator lamp or one side of vehicle does not operate.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	LI03	Lighting	Required direction indicator lamp not fitted	A required direction indicator lamp is not fitted.	Green	
5	LI04	Lighting	Direction Indicator Lamp not operational	A direction indicator lamp not operational.	Green 2	
5	LI05	Lighting	Required direction indicator lamp works intermittently and flickers when tapped.	A required direction indicator lamp works intermittently or flickers when tapped.	Green 2	Applies also to auxiliary direction indicator lamps (defects without reference to this note do not apply to auxiliary direction indicator lamps).
5	LI06	Lighting	Additional direction indicator lamp works intermittently	An additional direction indicator lamp works intermittently or flickers when tapped.	Green 2	
5	LI07	Lighting	Direction indicator lamp does not flash between 60 and 120 times per minute	A direction indicator lamp does not flash at a rate of between 60 and 120 times per minute.	Green 2	Applies also to auxiliary direction indicator lamps (defects without reference to this note do not apply to auxiliary direction indicator lamps).
5	LI08	Lighting	Front direction indicator lamp emits colour other than white/amber	A front direction indicator lamp emits light of a colour other than white or amber.	Green 2	Applies also to auxiliary direction indicator lamps (defects without reference to this note do not apply to auxiliary direction indicator lamps).
5	LI09	Lighting	Rear direction indicator lamp emits light other than red or amber	A rear direction indicator lamp emits light of a colour other than red or amber.	Green 2	Applies also to auxiliary direction indicator lamps (defects without reference to this note do not apply to auxiliary direction indicator lamps).
5	LI10	Lighting	Direction indicator lamp is not securely fitted (detachment is imminent)	A direction indicator lamp is not securely fitted (detachment is imminent).	Green	Front or rear of the combination only.
5	LI11	Lighting	Direction indicator lamp is not securely fitted (detachment is not imminent)	A direction indicator lamp is not securely fitted (detachment is not imminent).	Green 2	
5	LI12	Lighting	Direction indicator lamp is damaged (output affected/failure imminent)	A direction indicator lamp is damaged, (eg the lens is damaged or missing, water is in the lamp, or the reflector is deteriorated), the lamp's light output is affected, or failure of the lamp is imminent (eg a lens is missing or significantly damaged, or water is in the lamp).	Green	
5	LI13	Lighting	Direction indicator lamp is damaged (output not affected/failure not imminent)	A direction indicator lamp is damaged, (eg the lens is damaged or missing, water is in the lamp, or the reflector is deteriorated), the lamp's light output is not affected and failure of the lamp is not imminent.	Green 2	
5	LI14	Lighting	Direction indicator lamp fully obscured or two or more not working	A direction indicator lamp is fully obscured or the indicator system operates, but two or more lights are not working (or one not working if there is only one indicator lamp per side).	Green	Foremost or rearmost on a combination vehicle.
5	LI15	Lighting	Direction indicator lamp partially obscured	A direction indicator lamp is partially obscured.	Green 2	
5	LI16	Lighting	A direction indicator lamp is fitted with a cover that affects its output	A direction indicator lamp is partially or fully fitted with a cover that is opaque, tinted, damaged or deteriorated in a way that affects the light output.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	LI17	Lighting	Required warning device indicating failure of direction indicator lamps is not fitted/operational	A required warning device which indicates the failure of one or more direction indicator lamps is not fitted or not operational.	Green 2	
5	LI20	Lighting	Indicator lamps – one not working (if more than one per side)	One indicator lamp is not working when there is more than 1 indicator per side visible from the front or rear.	Green 2	Foremost or rearmost on a combination vehicle.
5	LM01	Lighting	No rear side marker lamps fitted (during darkness)	A vehicle is operated during the hours of darkness with no rear side lamps fitted.	Pink	
5	LM02	Lighting	No right side rear tail lamp/no other rear right side lamp operational below 2 metres (during darkness)	No right side rear tail lamp working during the hours of darkness and no other rear right side lamp operational below 2 metres.	Pink	
5	LM03	Lighting	No rear side marker lamps fitted (during daylight)	No rear side lamps fitted (during daylight).	Green	
5	LM04	Lighting	More than one side marker lamp is not operational (during darkness)	A vehicle is operated during the hours of darkness with no rear side marker lamp fully operational.	Pink	
5	LM05	Lighting	One or more side marker lamps is not operational, damaged or fully or partially obscured (anytime)	A vehicle is operated at any time with one or more side lamps not operational, damaged, obscured (including an opaque cover), works intermittently, flashes or flickers when tapped or is not securely fitted.	Green 2	
5	LM06	Lighting	Rear position lamp emits light other than red/is fully obscured (at night)	A rear side lamp emits light of a colour other than red or rear side lamp is fully obscured at night.	Pink	
5	LM07	Lighting	Rear side lamp is partially obscured (at night)	A rear side lamp is partially obscured at night.	Green 2	
5	LM09	Lighting	Front side lamp emits light other than white or amber (not red)	A front side lamp emits light of a colour other than white or amber (but is not red).	Green 2	
5	LM10	Lighting	Required side lamp is not securely fitted, detachment is imminent	Required side lamp is not securely fitted, detachment is imminent.	Green	
5	LM11	Lighting	Required side lamp is not securely fitted, detachment not imminent	A required side lamp is not securely fitted (detachment is not imminent).	Green 2	
5	LM19	Lighting	Required side marker lamp is not fitted	A required side marker lamp is not fitted.	Green	
5	LM20	Lighting	Side marker lamp not fitted at approx. 1/3 of the vehicle's length from the rear	A side marker lamp is not fitted at approximately 1/3 of the vehicles length from the rear.	Green 2	
5	LM22	Lighting	Side marker lamp emits colour other than white/amber to the front or red/amber to the rear	A side marker lamp emits light of a colour other than white or amber to the front; or red or amber to the rear.	Green 2	
5	LM24	Lighting	Side marker lamp damaged affecting output.	A side marker lamp is damaged (eg the lens is damaged or missing, water is in the lamp, or the reflector is deteriorated). The lamp's light output is affected, or failure of the lamp is imminent (eg a lens is missing or significantly damaged, or water is in the lamp).	Green 2	
5	LN01	Lighting	Required registration plate lamp not fitted	A required registration plate lamp is not fitted.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	LN02	Lighting	Registration plate lamp not operational, insecure, damaged or obscured	A registration plate lamp is not operational, works intermittently, flashes, or flickers when tapped, is not securely fitted or is obscured.	Green 2	
5	LN03	Lighting	Registration plate lamp colour other than white or directly visible from the rear.	A registration plate lamp emits light of a colour other than white.	Green 2	
5	LN05	Lighting	Registration plate lamp not securely fitted, damaged or obscured.	A registration plate lamp is not securely fitted.	Green 2	
5	LO01	Lighting	More than one work lamp fitted	More than one work lamp is fitted or a work lamp is not securely fitted.	Green 2	
5	LO02	Lighting	Work lamp emits colour other than white or amber	A work lamp emits light of a colour other than white or amber.	Green 2	
5	LO04	Lighting	Work lamp not securely fitted, detachment not imminent	A work lamp is not securely fitted and detachment is not imminent.	Green 2	
5	LO05	Lighting	More/less than two cornering lamps fitted	Only one, or more than two, cornering lamp(s) is/are fitted.	Green 2	
5	LO06	Lighting	Cornering lamp operates incorrectly or intermittently	A cornering lamp operates intermittently, flashes or flickers when tapped or operates with the headlamps switched off, without the direction indicators on the same side operating, or with the direction indicators on the opposite side operating.	Green 2	
5	LO08	Lighting	Cornering lamp emits colour other than white/amber	A cornering lamp emits light of a colour other than white or amber.	Green 2	
5	LO09	Lighting	Cornering lamp is directly visible from the rear	A cornering lamp is directly visible from the rear.	Green 2	
5	LO10	Lighting	Cornering lamp not securely fitted, detachment imminent	A cornering lamp not securely fitted (detachment is imminent).	Green	
5	LO11	Lighting	Cornering lamp not securely fitted, detachment not imminent	A cornering lamp not securely fitted detachment is not imminent.	Green 2	
5	LO12	Lighting	More/less than two daytime running lamps fitted	Only one, or more than two, daytime running lamp(s) is/are fitted.	Green	Group "A" or "T" vehicles do not have daytime running lamps (DTR).
5	LO13	Lighting	Daytime running lamp not fitted at front of vehicle/does not face forward	A daytime running lamp is not fitted at the front of the vehicle or does not face forward.	Green 2	
5	LO14	Lighting	Daytime running lamp works intermittently/operates with fog/head lamps	A daytime running lamp works intermittently, flashes, or flickers when tapped or operates with fog lights.	Green 2	
5	LO15	Lighting	Daytime running lamp emits colour other than white/amber	A daytime running lamp emits light of a colour other than white or amber.	Green 2	
5	LO16	Lighting	Daytime running lamp not securely fitted	A daytime running lamp is not securely fitted.	Green 2	Only where there is specific danger to other road users.
5	LO17	Lighting	Required cab roof lamp is not fitted	A required cab roof lamp is not fitted.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	LO18	Lighting	Cab roof lamp not operational, insecure, damaged, obscured or partially/fully fitted with an opaque/damaged cover	A cab roof lamp is not operational, works intermittently, flashes, or flickers when tapped or is not securely fitted, is damaged, (eg the lens is damaged or missing, water is in the lamp, or the reflector is deteriorated), obscured or fitted with an opaque cover. The lamp's light output is affected, or failure of the lamp is imminent (eg a lens is missing or significantly damaged, or water is in the lamp).	Green 2	
5	LO19	Lighting	Cab roof lamp emits colour other than amber or is insecure	A cab roof lamp emits light of a colour other than amber or is insecure.	Green 2	
5	LO25	Lighting	Cab roof lamp partially/fully fitted with an opaque, tinted/damaged cover; output not affected	A cab roof lamp is partially or fully fitted with a cover that is opaque, tinted, damaged or deteriorated. The lamp's light output is not affected.	Green 2	
5	LO26	Lighting	Work lamp fitted to vehicle other than heavy goods vehicle, forklift, ambulance/ fire appliance. PSV	A work lamp is fitted to a vehicle other than a heavy goods vehicle, forklift, ambulance or fire appliance. PSV.	Green 2	
5	LO27	Lighting	More than 2 work lamps fitted to heavy goods vehicle. More than 4 work lamps fitted to ambulance/fire appliance	More than two work lamps are fitted to a heavy goods vehicle, or more than four work lamps are fitted to an ambulance or fire appliance.	Green 2	
5	LO28	Lighting	Work lamp not securely fitted	A work lamp is not securely fitted.	Green 2	
5	LO29	Lighting	Work lamp warning light not fitted/ operational	A warning light which indicates operation of a work lamp to the driver is not fitted or not operational.	Green 2	
5	LO30	Lighting	Flashing/revolving lamp not fitted as specified/required, exceeds number permitted, emits incorrect colour or is not securely fitted	A flashing or revolving lamp is not fitted as specified or required, exceeds the number permitted, emits light of a colour other than the colour specified or is not securely fitted.	Green 2	
5	LO34	Lighting	Rear position lamp out at night	Rear position lamp(s) on rear right hand side of combination or single vehicles not working during the hours of darkness (refer to preamble).	Pink	
5	LO35	Lighting	Rear position lamp LHS out at night	Rear position lamp(s) on left hand side not working during the hours of darkness (refer to preamble) on rear of combination or single vehicles.	Green 2	
5	LR01	Lighting	Right hand reflector missing/ineffective in darkness	Right hand reflector is missing, obscured or ineffective during hours of darkness but other lights are operating.	Green 2	
5	LR02	Lighting	No required rear reflectors fitted	No required rear reflectors are fitted.	Green	
5	LR03	Lighting	Only 1 required rear reflector fitted	Only one of two required rear reflectors are fitted.	Green 2	
5	LR04	Lighting	Rear reflector colour other than red or not securely fitted	A rear reflector reflects light of a colour other than red or is not securely fitted.	Green 2	
5	LR10	Lighting	Reflector RHS ineffective at night - vehicle not visible	Reflector right hand side is missing or ineffective during hours of darkness and vehicle is NOT readily visible by other means.	Pink	
5	LR13	Lighting	Reflector LHS ineffective at night	Reflector left hand side missing or ineffective during hours of darkness.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	LS01	Lighting	No stop lamps are fitted or they do not operate when the service brake is applied or are missing or obscured	No required stop lamps are fitted or do not operate when service brake applied, are fully obscured or missing on a single vehicle or the rearmost vehicle in a combination.	Pink	
5	LS02	Lighting	Only one of two required stop lamps is fitted	Only one of two required stop lamps is fitted.	Green 2	One light is missing or not working.
5	LS04	Lighting	Only one stop lamp operates when service brake applied	Only one stop lamp operate when service brake applied.	Green 2	Applies also to auxiliary stop lamps (defects without reference to this note do not apply to auxiliary stop lamps).
5	LS05	Lighting	All stop lamps operate when service brake is not applied	All stop lamps operate when service brake is not applied.	Green	Applies also to auxiliary stop lamps. Auxiliary brakes may activate stop lamps (defects without reference to this note do not apply to auxiliary stop lamps).
5	LS06	Lighting	All but one stop lamps operate when service brake is not applied	All but one stop lamps operate when service brake is not applied.	Green 2	Applies also to auxiliary stop lamps (defects without reference to this note do not apply to auxiliary stop lamps).
5	LS09	Lighting	Stop lamp emits colour other than red	A stop lamp emits light of a colour other than red.	Green 2	Applies also to auxiliary stop lamps (defects without reference to this note do not apply to auxiliary stop lamps).
5	LS10	Lighting	A stop lamp is not securely fitted, is damaged affecting output, may fail or is obscured.	A stop lamp is damaged (eg the lens is damaged or missing, water is in the lamp, or the reflector is deteriorated). The lamp's light output is affected or it may fail or the lens is obscured affecting output or it is not securely fitted.	Green 2	Applies also to auxiliary stop lamps (defects without reference to this note do not apply to auxiliary stop lamps).

FLUID LEAKS LEVEL 5

5	MF13	Fluid leaks	Oil leak: vehicle power train - severe	Oil leaks from engine diff or gearbox - danger to other road users.	Pink	There is pooling under the vehicle when it is stationary.
5	MF14	Fluid leaks	Oil leak: hydraulic ancillary system - severe	Oil leaks from hoist, crane etc - danger to other road users.	Pink	There is pooling under the vehicle when it is stationary.
5	MF15	Fluid leaks	Fluid leaks other	Fluid leaks from any other source that warrant attention but does not pose a danger to other road users.	Green 2	
5	MF16	Fluid leaks	Fluid leaks - engine compartment	Fluid leaks from any source within the engine compartment, contamination or loose trim, insulation or sound deadening which may create or support the circumstances for combustion.	Pink	For class MD vehicles.

FUEL SYSTEM LEVEL 5

5	EF07	Fuel system	Fuel tank, battery box, etc dangerously insecure	Fuel tank, battery box, air tanks or any other heavy item is grossly insecure due to missing upper bolts, nuts, or broken/cracked or missing bracket.	Pink	
5	EF08	Fuel system	Fuel tank, battery box, etc insecure or loose	Fuel tank, battery box, air tanks or any other heavy item is not properly secured because some of the bolts are loose.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	MA01	Fuel system	CNG or LPG alternative fuel inspection certificate absent, LPG in the tank	A vehicle with an operational CNG or LPG alternative fuel system does not have a current alternative fuel inspection certificate and has LPG in the tank.	Green	
5	MF05	Fuel system	Fuel cap not fitted/does not prevent spillage	A fuel cap is not fitted or if fitted, does not prevent spillage.	Pink	
5	MF06	Fuel system	Fuel tank, pump, pipe, hose or connector damaged failure is imminent	The fuel tank, pump, pipe, hose or connector, leaks or failure is imminent.	Pink	
5	MF07	Fuel system	The fuel tank, pump, pipe, hose or connector is significantly damaged	The fuel tank, pump, pipe, hose or connector is significantly damaged, eg cracked or excessively worn or corroded.	Green	In the case of a pipe, the pipe is pitted or its OD is noticeably increased.
5	MF08	Fuel system	The fuel tank, pump, pipe, hose or connector is not significantly damaged. Failure is not imminent	The fuel tank, pump, pipe, hose or connector is not significantly damaged. Failure is not imminent.	Green 2	
5	MF09	Fuel system	Contents gauge not operational	A contents gauge is not operational.	Green 2	
5	MF10	Fuel system	Fuel dripping	Fuel leaking while vehicle is standing, ie free flow or dripping - dangerous to other road users.	Pink	
5	MF12	Fuel system	Fuel seepage from fuel system	Fuel is seeping from fuel system.	Green 2	

EXHAUST SYSTEM LEVEL 5

5	ME01	Exhaust system	Internal combustion engine - no exhaust system	A vehicle with an internal combustion engine is not fitted with an exhaust system.	Pink	The exhaust system includes manifolds, silencers, pipes, gaskets, mounting hardware and heat shields fitted to protect fire risk.
5	ME02	Exhaust system	Exhaust system not effective - leaks/ excessive noise	An exhaust system that is not effective, because it has not been properly maintained, or has been damaged, and the system leaks or creates excessive noise.	Green	
5	ME03	Exhaust system	Exhaust system not securely fitted - detachment imminent	An exhaust system is not securely fitted and detachment is imminent.	Pink	
5	ME04	Exhaust system	Exhaust system not securely fitted - detachment not imminent	An exhaust system is not securely fitted but detachment is not imminent.	Green	
5	ME05	Exhaust system	PSV exhaust system exits on LHS	PSV exhaust system exits on left hand side of the vehicle.	Pink	
5	ME08	Exhaust system	Exhaust loose or shows leaks before muffler	Exhaust is loose or shows signs of leaks on primary side (in front of muffler).	Green	
5	ME09	Exhaust system	Excessive smoke - safety issue exists	Excessive smoke as determined by 10 second moving test or other means.	Green	
5	ME11	Exhaust system	Excessive noise	Excessive noise from any part of the vehicle's exhaust system.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
STEERING LEVEL 5						
5	SA01	Steering	Steering component boot damaged	A steering component boot is damaged.	Green 2	
5	SA02	Steering	Drop arm worn imminent failure	Drop arm indicates excessive movement or unacceptable wear and looseness in steering components outside manufacturer's tolerances where failure is imminent.	Pink	
5	SA03	Steering	Drop arm loose	Drop arm indicates excessive movement or unacceptable wear and looseness in steering components outside manufacturer's tolerances.	Green	
5	SB01	Steering	Component of steering system not fitted/not securely fitted - detachment imminent/directional control affected, vehicle cannot be operated safely	A component of a steering system is not fitted or not securely fitted, eg a steering rack gaiter is missing, a steering mount is missing, a ball joint nut is loose, missing or not locked, detachment of the component is imminent, or the directional control of the vehicle is adversely affected so that the vehicle cannot be operated safely.	Pink	
5	SB02	Steering	Component of steering system not fitted/not securely fitted - directional control affected, detachment not imminent	A component of a steering system is not fitted or not securely fitted, eg a steering rack gaiter is loose, missing or not properly fitted, or a lock stop is loose or missing. The directional control of the vehicle is adversely affected but detachment of the component is not imminent.	Green	Includes steering axle components and mountings.
5	SB03	Steering	Component of steering system not fitted/not securely fitted - detachment not imminent, directional control not affected	A component of a steering system is not fitted or not securely fitted, eg a steering mount is loose, a ball joint nut is loose or not locked, a steering rack gaiter is loose or not properly fitted, or a lock stop is loose. Detachment of the component is not imminent, the directional control of the vehicle is not adversely affected.	Green	
5	SB04	Steering	Steering component damaged or worn - failure imminent/directional control affected, vehicle cannot be operated safely	A steering component is damaged or worn, eg there is damage, including cracking, deformation, seized, corrosion, or unsuitable welding or heat treatment, to a steering wheel spoke, hub or rim; a track rod or drag link end; a steering box or rack housing; a pivot bearing or steering coupling; a wishbone, track control arm or radius rod; a steering rack gaiter; a lock stop; or a power steering system component. Failure of the component is imminent, or the directional control of the vehicle is adversely affected so that the vehicle cannot be operated safely.	Pink	Cracks to the plastic covering of a steering wheel do not necessarily mean the wheel is broken.
5	SB05	Steering	Steering component damaged or worn -directional control affected, detachment not imminent	A steering component is damaged or worn, eg there is damage, including cracking, deformation, seizing, corrosion, or unsuitable welding or heat treatment, to a steering wheel spoke, hub or rim; a track rod or drag link end; a steering box or rack housing; a pivot bearing or steering coupling; a wishbone, track control arm or radius rod; a steering rack gaiter; a lock stop; or a power steering system component. The directional control of the vehicle is adversely affected but detachment of the component is not imminent.	Green	Cracks to the plastic covering of a steering wheel do not necessarily mean the wheel is broken.
5	SB06	Steering	Identifiable wear affecting control	Any identifiable wear that affects safe and sensible control of the vehicle.	Pink	
5	SB07	Steering	A suspension component is worn	Suspension pin, wishbone bearing, flexible bush, kingpin, ball joint, shock absorber strut or bush is worn beyond tolerance.	Green	Fluid leaks (drips) more than twice in 30 seconds.
5	SB08	Steering	Steering box mount loose	Steering box mount loose.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	SC01	Steering	Steering column located on left of vehicle's longitudinal centreline (with TSL)	A steering column is located on the left of a vehicle's longitudinal centreline. Used in conjunction with TSL.	Pink	Unless the vehicle is exempted - refer to the VIRM: Entry certification for details.
5	SC02	Steering	Steering column located on left of vehicle's longitudinal centreline (no TSL)	A steering column is located on the left of a vehicle's longitudinal centreline. Not used in conjunction with TSL.	Green	Unless the vehicle is exempted - refer to the VIRM: Entry certification for details.
5	SC03	Steering	Steering component damaged or worn - failure/detachment not imminent, directional control not affected	A steering component is damaged or worn, eg there is damage, including cracking, deformation, seizing, corrosion, or unsuitable welding or heat treatment, to a steering wheel spoke, hub or rim; a track rod or drag link end; a steering box or rack housing; a pivot bearing or steering coupling; a wishbone, track control arm or radius rod; a steering rack gaiter; a lock stop; or a power steering system component; failure of the component is not imminent, the directional control of the vehicle is not adversely affected, detachment of the component is not imminent.	Green 2	Cracks to the plastic covering of a steering wheel do not necessarily mean the wheel is broken.
5	SC04	Steering	Steering linkage loose	Steering linkage indicates excessive movement or unacceptable wear and looseness in steering components outside manufacturer's tolerances.	Green	
5	SC05	Steering	Steering linkage loose imminent failure	Steering components indicate excessive movement or unacceptable wear and looseness in steering linkage outside manufacturer's tolerances and failure is imminent.	Pink	
5	SP01	Steering	Power steering system leak - major	Power steering system has a major leak - must be dripping.	Pink	
5	SU01	Steering	Leakage of steering shock absorber damping fluid/minor power steering fluid leak	Leakage of steering shock absorber damping fluid or minor power steering fluid leak.	Green 2	Less than two drips in 30s.
5	SW01	Steering	Steering mechanism does not provide safe, efficient, convenient and sensitive control of a vehicle	A steering mechanism does not provide safe, efficient, convenient and sensitive control of a vehicle, eg the operation of a steering mechanism requires excessive force.	Pink	
5	SW02	Steering	Play/roughness/stiffness in steering wheel/strut upper support bearing/steering column bearing or universal joint	Play when the steering wheel is rotated; play, roughness or stiffness in a strut upper support bearing; or play, roughness or tightness in a steering column bearing or universal joint.	Green	
5	SW03	Steering	Steering wheel excessive movement	Steering wheel indicates excessive movement or unacceptable wear and looseness in steering components >30 degrees.	Green	Rotational free-play measured (as per VWAO at the steering wheel rim (road wheels on the ground) should not exceed: for a rack and pinion system: 1/30 of steering wheel Ø (eg 13mm for a 390mm Ø wheel); for other systems: 1/5 of the steering wheel Ø (eg 76mm for a 380mm Ø wheel).
5	SW04	Steering	Wheel bearing worn	Wheel bearings appear rough, worn or loose beyond the OE manufacturer's limits.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
BRAKES LEVEL 5						
5	AA01	Brakes	Air brake system capacity insufficient	Air brake system capacity is insufficient.	Pink	Refer to standard air test procedure [VIRM: In-service certification (WoF and CoF)].
5	AA02	Brakes	Required number of brake applications cannot be performed – emergency/breakaway/tractor protection valve	The required number of brake applications cannot be performed. The low pressure warning is activated before 3 full service brake applications with full release for combinations having an emergency or breakaway valve on the trailer and a tractor protection valve on the towing vehicle.	Green	The test to be conducted with the brake system at its maximum specified operating pressure, engine stopped and park brake released.
5	AA03	Brakes	Required number of brake applications cannot be performed – other vehicles (no trailer air brake equipment)	The required number of brake applications cannot be performed. The low pressure warning is activated before 5 (4 if ECE 13) full service brake applications with full release for other vehicles.	Green	A full service brake application is made when all the brakes have been fully applied to stop the combination in the required distance.
5	AC01	Brakes	Air compressor or vacuum pump missing/does not operate/does not operate correctly/has external damage or leaks	An air compressor or vacuum pump is missing, does not operate or does not operate correctly, or has external damage or leaks.	Pink	Some air brake components have a limited amount of leakage which is acceptable. A small amount of lubricating oil leakage is also acceptable as long as the operation of components is not adversely affected.
5	AC02	Brakes	Air compressor or vacuum pump loose mounting bolts/cracked or broken mounting brackets, braces or adapters/excessively corroded	An air compressor or vacuum pump has loose mounting bolts, cracked or broken mounting brackets, braces or adapters, or is excessively corroded.	Green	Corrosion must not weaken the structure or mounting of brake components or adversely affect their operation.
5	AC03	Brakes	Compressor or vacuum pump drive belt cracked, frayed or slipping – pressure build-up affected/failure imminent	An air compressor or vacuum pump drive belt is cracked, frayed or slipping. The pressure build-up time is seriously affected or failure is imminent.	Pink	Some air brake components have a limited amount of leakage which is acceptable. A small amount of lubricating oil leakage is also acceptable as long as the operation of components is not adversely affected.
5	AC04	Brakes	Compressor/vacuum pump drive belt cracked, frayed or slipping – pressure build-up time not affected, failure not imminent	An air compressor or vacuum pump drive belt is cracked, frayed or slipping. The pressure build-up time is not seriously affected and failure is not imminent.	Green 2	
5	AC05	Brakes	Air pressure build up slow – GSVs 3 mins	GSVs: Air pressure build up is slow. The compressor does not raise system pressure to the point where the compressor unloads before 3 minutes: starting from the pressure at which low pressure warning ceases to operate, or in vehicles so equipped, the emergency brake operates.	Pink	The test to be conducted with the engine operating at its maximum governed speed operating pressure, engine stopped and park brake released.
5	AC06	Brakes	Air pressure build up slow – GSVs 1.5 mins	GSVs: Air pressure build up is slow. The compressor does not raise system pressure to the point where the compressor unloads before 1.5 minutes: starting from the pressure the system is at after carrying out either 3 or 5 full service brake applications, as required above.	Green	If the manufacturer's minimum recommended operating pressure is not available, it is deemed to be 50% of the maximum operating pressure.
5	AC07	Brakes	Air pressure build up slow – PSVs 1.5 mins	PSVs: Air pressure build up is slow. The compressor does not raise system pressure to the point where the compressor unloads before 1.5 minutes: starting from the pressure the system is at after carrying out 5 full service brake applications as required in the reservoir capacity requirements above.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	AD01	Brakes	Braking system not protected from failure of air operated auxiliary devices	The braking system is not protected from failure of air operated auxiliary devices.	Green	Refer to standard air test procedure [VIRM: In-service certification (WoF and CoF)]. Manufacturers' fitted auxiliary devices can be accepted.
5	AD02	Brakes	Auxiliary air operated device damaged/modified/fitted without approval	An auxiliary air operated device is fitted to the brake system without the approval of the manufacturer or the NZTA, or an approved system is found to be damaged or modified, eg the operation of an auxiliary device lowers the pressure of the brake system below two thirds of its maximum operating pressure; or an auxiliary device which required a significant* amount of compressed air uses the same source of compressed air as the brake system and shares air from the brake system's reservoir, ie does not have its separate reservoir.	Green	*significant in relation to the amount of compressed air required for the operation of the brake system. Significant amounts are typically required by air spring suspension systems, central tyre inflation systems or pneumatically operated passenger doors.
5	AG01	Brakes	Required vacuum gauge or low vacuum audible alarm not fitted/not operational/works intermittently	A required vacuum gauge or low vacuum audible alarm is not fitted, not operational, or works intermittently.	Green	
5	AG02	Brakes	Air brake gauges not fitted or functional	The air brake gauges are not fitted or functional.	Green	Refer to standard air test procedure.
5	AG03	Brakes	Required vacuum gauge not fitted	A required vacuum gauge is not fitted.	Green	Refer to requirements in [VIRM: In-service certification (WoF and CoF)].
5	AR01	Brakes	Drive pulley or belt cracked, broken or loose	A drive pulley or drive belt is cracked, broken or loose.	Green	Cracked through to reinforcing cords, extensively frayed or missing drive sections.
5	AR02	Brakes	Air brake system recovery too slow	The air brake system recovery does not return the system to full pressure within the required times.	Pink	Refer to standard air test procedure [VIRM: In-service certification (WoF and CoF)].
5	AT01	Brakes	Reservoir/master cylinder/servo unit leaks, or is loose/otherwise damaged or worn	A reservoir, master cylinder or servo unit leaks, or is loose, cracked, corroded, broken, otherwise damaged or worn.	Green	
5	AT02	Brakes	Air reservoir contains excessive oil/water - air brake reserve affected	An air reservoir contains an excessive amount of oil or water (air brake reserve is affected to where the required number of brake applications do not meet the requirement).	Green	
5	AT03	Brakes	Device used to supply brake system - gauge missing/not operational/inaccurate/not visible	A device that is used to supply the brake system does not have a gauge fitted, the gauge is not operational, inaccurate, not illuminated, or is not readily visible from the driver's seat.	Green	An alternative device to a gauge may be used provided that the NZTA approves the device.
5	AT04	Brakes	Audible warning device missing/not operational/in audible/pressure too low - gauges not operational	An audible warning device is missing, does not operate, operates at a pressure lower than the manufacturer's minimum recommended pressure or cannot be easily heard from the driver's seat. Gauges not operational.	Green	
5	AV01	Brakes	Load sensing valve leaks/out of adjustment/not operational	A load sensing valve leaks, is out of adjustment or not operational, eg missing, seized, by-passed or disconnected.	Green	
5	AW01	Brakes	Low air warning device not operational	The low air warning device is not operational.	Green	Refer to standard air test procedure [VIRM: In-service certification (WoF and CoF)].
5	AW02	Brakes	Required low vacuum warning device does not activate	A required low vacuum warning device does not activate.	Pink	Refer to requirements [VIRM: In-service certification (WoF and CoF)].

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	AW03	Brakes	Audible warning device missing/not operational/inaudible/pressure too low - gauges operational	An audible warning device is missing, does not operate, operates at a pressure lower than the manufacturer's minimum recommended pressure or cannot be easily heard from the driver's seat. Gauges operational.	Green 2	If the manufacturer's minimum recommended operating pressure is not available, it is deemed to be 50% of the maximum operating pressure.
5	BA01	Brakes	Slack adjuster angle insufficient - service brake performance doesn't meet legal requirements	A slack adjuster does not form an angle of close to 90° when the brakes (in good adjustment) are applied with full treadle pressure. Performance in BPO1 not met (service brake performance doesn't meet legal requirements).	Pink	
5	BA02	Brakes	Slack adjuster angle insufficient - service brake performance meets legal requirements	A slack adjuster does not form an angle of close to 90° when the brakes (in good adjustment) are applied with full treadle pressure. Performance in BPO1 met.	Green 2	
5	BA03	Brakes	Lever/slack adjuster significantly damaged - weakens lever/slack adjuster or prevents free operation	A lever or slack adjuster is damaged, eg cracked, bent, corroded or worn. The damage prevents its free operation or significantly weakens* the slack adjuster lever.	Green	*The cross-sectional area is reduced by >25%.
5	BA04	Brakes	Lever/slack adjuster damaged - spider in contact with other brake components, and/or brake efficiency reduced	A lever or slack adjuster is damaged, eg cracked, bent, corroded or worn. The spider is in contact with other brake components, and/or brake efficiency is reduced.	Pink	
5	BA05	Brakes	Lever/slack adjuster damaged - not significantly weakened/free operation not prevented.	A lever or slack adjuster is damaged, eg cracked, bent, corroded or worn. The damage does not significantly weaken the lever or slack adjuster, or prevent its free operation. The spider is not in contact with other brake components, and brake efficiency is not reduced.	Green 2	
5	BC01	Brakes	Brake pipe not supported	A brake pipe is not supported over a span of >700mm for Ø 6 to 10mm pipe, or >1000mm for Ø 10 to 18mm pipe.	Green 2	Ø = "outside diameter".
5	BC02	Brakes	Brake pipe/shielded brake hose fitted too close to exhaust system	A brake pipe or shielded brake hose is fitted within <100mm from any part of the exhaust system, or an unshielded brake hose is fitted within <200mm.	Green 2	
5	BC03	Brakes	Brake pipe, hose or connector in contact with any part of vehicle that has caused damage or wear	A brake pipe, hose or connector is in contact with any parts of the vehicle in a way that has caused damage or wear such as chafing or denting. The pipe hose or connector is in contact with any moving parts.	Pink	
5	BC04	Brakes	Brake pipe, hose or connector in contact with any part of vehicle that has caused damage or wear - failure not imminent	A brake pipe, hose or connector is in contact with any parts of the vehicle in a way that could cause damage or wear such as chafing or denting. The pipe, hose or connector is in contact with any moving parts. Failure not imminent.	Green 2	
5	BC05	Brakes	Brake pipe, hose or connector in contact with any part of vehicle that could cause damage or wear. Not in contact with moving parts.	A brake pipe, hose or connector is in contact with any parts of the vehicle in a way that could cause damage or wear such as chafing or denting. Not in contact with moving parts. Failure not imminent.	Green 2	
5	BC06	Brakes	Brake pipe, hose or connector leaks - audible air leak/hydraulic leak from a pipe, hose or connector/any other significant leak	A brake pipe, hose or connector leaks. There is an audible air leak, a hydraulic leak from a pipe, hose or connector, or any other significant leak.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	BC07	Brakes	Brake pipe, hose or connector leaks - hydraulic weep	A brake pipe, hose or connector leaks. There is a hydraulic weep from a wheel or master cylinder.	Green	
5	BC08	Brakes	Brake pipe corroded - pitted, Ø notably increased	A brake pipe is corroded. The pipe is pitted or the pipe's Ø is noticeably increased.	Pink	
5	BC09	Brakes	Brake pipe corroded - not pitted, Ø not notably increased	A brake pipe is corroded. The pipe is not pitted or the pipe's Ø is not noticeably increased.	Green 2	
5	BC10	Brakes	Cross sectional area of brake pipe/hose reduced - blocked or significantly reduced	The cross sectional area of a brake pipe or hose is reduced, eg as a result of denting or kinking. The pipe or hose is blocked or almost blocked, eg any part of a pipe is flat or almost flat, or a hose is kinked or the cross sectional area is significantly reduced.	Pink	
5	BC12	Brakes	Cross sectional area of brake pipe/hose reduced	The cross sectional area of a brake pipe or hose is reduced, eg as a result of denting or kinking. The pipe or hose is not blocked or almost blocked. The cross-sectional area is not significantly reduced.	Green 2	
5	BC13	Brakes	A brake hose bulges under pressure	A brake hose bulges under pressure.	Pink	
5	BC14	Brakes	Brake hose cracked/chafed to outer layer	A brake hose is cracked or chafed. Cracking or chafing extends all the way through the hose's outer layer, ie subsequent layers of the hose are visible.	Green	
5	BC15	Brakes	Brake hose cracked/chafed part of way through outer layer	A brake hose is cracked or chafed. Cracking or chafing extends part of the way through the hose's outer layer, ie subsequent layers of the hose are not visible.	Green 2	
5	BC16	Brakes	Brake hose cracked/chafed to outer layer and subsequent layers	A brake hose is cracked or chafed. Cracking or chafing extends all the way through the hose's outer layer and subsequent layers, ie subsequent layers of the hose are visible and cracked/chafed.	Pink	
5	BC17	Brakes	Brake pipe, hose or connector is damaged - failure imminent	A brake pipe, hose or connector is otherwise damaged, including cracked pipes or connectors, and twisted or stretched brake hoses. A pipe or connector is cracked, or failure is imminent.	Pink	
5	BC18	Brakes	A brake pipe, hose or connector is damaged - failure not imminent	A brake pipe, hose or connector is otherwise damaged, including cracked pipes or connectors, and twisted or stretched brake hoses. A pipe or hose is twisted or stretched but failure is not imminent.	Green 2	
5	BC19	Brakes	Brake lever pivot does not operate freely/has excessive clearance	A brake lever pivot does not operate freely or has excessive clearance.	Green 2	
5	BC20	Brakes	Brake connection between vehicles not two line type	A brake connection between vehicles is fitted that is not a two line type.	Pink	
5	BC21	Brakes	Brake connection not colour coded, can be incorrectly connected	A brake connection is not colour coded and can be incorrectly connected.	Green	Control line: yellow, green or blue; supply line: red. Not applicable to vehicles certified to HVEK (Schedule 5).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	BC22	Brakes	Brake coupling not in one piece	A brake coupling is not in one piece ¹ and is incorrectly colour coded ² , or not mounted close to the vehicle's centre line or has other coupling connection devices that could be used inadvertently.	Green	1. Duomatic, Trimatic or similar. 2. Colour coded within 150mm of the coupling and mounted in the following manner: LHS of coupling: control line coloured blue or black; RHS of coupling: supply line coloured in red or yellow.
5	BC23	Brakes	Brake coupling incorrectly colour coded/incorrectly mounted/other coupling devices	A brake coupling is in one piece but is incorrectly colour coded, or not mounted close to the vehicle's centre line or has other coupling connection devices that could be used inadvertently.	Green	Colour coded within 150mm of the coupling and mounted in the following manner: LHS of coupling: control line, coloured blue or black; RHS of coupling: supply line coloured in red or yellow.
5	BD01	Brakes	Brake drum or disc not fitted/has pieces missing	A brake drum or disc is not fitted or has pieces missing.	Pink	
5	BD02	Brakes	Brake drum/disc cracked or not securely fitted	A brake drum or disc is not securely fitted or has cracks. The drum or disc is fractured through, a crack opens when the brake is applied.	Pink	Does not apply to short heat cracks inside the drum.
5	BD03	Brakes	Brake drum/disc cracked or not securely fitted	A brake drum or disc is not securely fitted or has cracks. The drum or disc is not fractured through, a crack does not open when the brake is applied.	Green	Does not apply to short heat cracks inside the drum.
5	BD04	Brakes	Drum/disc excessively corroded, worn, warped/contaminated by brake fluid/oil/grease	A drum or disc is excessively corroded ¹ , excessively worn ² , warped or contaminated by brake fluid, oil, or grease.	Pink	1. Corrosion must not weaken the structure or mounting of brake components, or adversely affect their operation. 2. Drum or disc wear must not exceed manufacturer's specifications.
5	BD06	Brakes	Shoe spring, anchor pins, cam roller, clevis pin or retainer missing/damaged - brake efficiency reduced on single steer front axle	A shoe spring, anchor pins, cam roller, clevis pin or retainer is missing or damaged. Brake efficiency is reduced on a single steer front axle.	Pink	
5	BD07	Brakes	Shoe spring, anchor pins, cam roller, or "S" cam bushes, clevis pin or retainer missing/damaged other than single steer front axle	A shoe spring, anchor pins, cam roller, clevis pin or retainer is missing or damaged. Brake efficiency is reduced on an axle other than a single steer front axle.	Green	
5	BE01	Brakes	Any part of brake mechanism not securely fitted or attached	Any part of a brake mechanism is not securely fitted or attached.	Pink	
5	BE02	Brakes	Locking device missing, detached, loose or insecure	A locking device is not fitted, loose, or not of an approved type. The locking device is missing, detached, loose or insecure.	Green	
5	BI01	Brakes	Adjustment indicator rod missing, seized or indicates excessive travel	An adjustment indicator rod is missing or seized or indicates excessive travel.	Green	Brake actuators include air brake actuators, wheel cylinders, disc brake callipers and slack adjusters.
5	BK01	Brakes	Vehicle in combination with GCM 39,000kg - 44,000kg not certified	A vehicle used in a combination with a GCM greater than 39,000kg is not certified for compliance with either the IHVBS, the NZHVBC or the NZHVBR (all codes) and is not on an HPMV or OD permit.	Pink	May be allowed to continue if unloaded to <39,000kg. Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	BK02	Brakes	Vehicle modified from certified condition - brake performance affected and not certified	A vehicle is modified from its condition when certified for compliance with the IHVBS or the NZHVBC, so that its brake performance is affected by the modification and it is not certified (Schedule 5).	Pink	Requires certification (LT400).
5	BK03	Brakes	Vehicle/modification certified to the IHVBS/NZHVBC - certification documentation missing/invalid	A vehicle or modification certified to the IHVBS or NZHVBC does not have a required statement of compliance or certification document, certification plate, CoL entry or modification certificate, or the statement or document, plate, entry or certificate is invalid, illegible, incomplete or incorrect.	Green	Requires certification (LT400).
5	BL01	Brakes	Brake lining/pad missing, not securely fitted, cracked or excessively worn - missing, detached or excessively worn	A brake lining or pad is missing, not securely fitted, cracked, or excessively worn. The brake lining or pad is missing, detached, worn to the metal or worn below the manufacturer's limit.	Pink	Brake lining wear indicators are normally milled into the lining.
5	BL03	Brakes	Brake lining does not comply with NZHVBC/not equivalent to original equipment	A brake lining is fitted that does not comply with the NZHVBC or not equivalent to original equipment.	Green	If there is evidence that a component does not meet the requirements of the NZHVBC or the NZHVBR, the vehicle inspector may require the brake maintenance records be produced.
5	BL04	Brakes	Brake linings replaced on one side of a steering axle set only	Brake linings are replaced clearly on one side of a steering axle set only.	Pink	
5	BL05	Brakes	Brake linings replaced on one side of any other axle set	Brake linings are replaced clearly on one side of any other axle set.	Green	
5	BO01	Brakes	Brakes out of adjustment - 2 or more or has travel over centre	Brakes are outside adjustment specified in CoF/Manufacturers standard - two or more or has travel over centre.	Pink	
5	BO02	Brakes	Brakes out of adjustment - GSV >2 axles, 2 or more - unladen	Brakes are outside of adjustment specified in CoF/Manufacturers standard but two or more with 50% of brakes still inside adjustment on a GSV unladen.	Green	
5	BO03	Brakes	Mechanical brake linkage missing	A mechanical brake linkage is missing.	Pink	
5	BO04	Brakes	Mechanical brake linkage incorrect or loose	A mechanical brake linkage is incorrect (clevis pin missing) (welded) (incorrect angle) (cut to incorrect length), is loose or has excessive movement.	Green	
5	BO06	Brakes	Air line restrictions - affects brake operation	Air line restrictions that affect the operation of a brake (kinked, bent, squashed, blocked etc).	Pink	
5	BO07	Brakes	Air line restrictions - brake operating	Air line restrictions that do not affect the operation of a brake (kinked, flattened, bent).	Green 2	
5	BO08	Brakes	Air line insecure	Air line(s) are insecure with no chafing evident.	Green 2	
5	BO09	Brakes	Air line chafing evident	Air line chafing evident but not leaking.	Green 2	
5	BO10	Brakes	Air leak low air pressure <30 seconds	Air leak with park brake released, service brake applied. Low air pressure alarm activates in less than 30 seconds.	Pink	
5	BO11	Brakes	Air leak low air pressure >30 seconds	Air leak with park brake released, service brake applied. Low air pressure alarm activates at more than 30 seconds.	Green	
5	BO13	Brakes	Air leak park brake system	Air leak with park brake system released.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	BO14	Brakes	Air leaks any other system	Air leak from any other system.	Green	
5	BO15	Brakes	Air tank mounts broken - tanks insecure	Air tank mounts broken or damaged that cause the tank(s) to be insecure.	Pink	
5	BO16	Brakes	Air tank single mount point broken	Air tank with single mounting point broken or damaged tank detachment not imminent (assuming four mounting points).	Green 2	
5	BO17	Brakes	Brake chamber missing or loose or damaged including perforated by corrosion	Brake chamber missing or loose or damaged (affecting operation), housing is perforated by corrosion and the assembly is unsound and/or air lines disconnected or blocked off.	Pink	
5	BO19	Brakes	Push rod doesn't move - brakes applied	Push rod does not move when park brake is off and service brake is applied.	Pink	
5	BO20	Brakes	Brake equipment loose	Primary brake equipment, components or mounts loose.	Green	
5	BO21	Brakes	Brake roller machine test fail	Mobile roller brake test machine has detected brake performance defects refer to CVIU standard (level 6 Inspection).	Pink	Refer to CVIU standard for Mobile roller brake test machine standard requirements (level 6 Inspection).
5	BO22	Brakes	Brake temperature check	Brake temperature check has detected brake performance defects refer to CVIU standard operating procedures.	Green	Refer to CVIU standard operating procedures for Brake temperature checks to detect brake performance defects.
5	BO23	Brakes	Hoses to trailer brakes not connected	Hoses to trailer brakes not fitted or disconnected.	Pink	
5	BO24	Brakes	EBS/ABS system inoperative	An EBS or ABS system is found to be inoperable when it is required to be operational (HPMV) or where the vehicle's standard compliance or certification (HVBNZ) requires it to be operational.	Pink	Trailer ABS/EBS must be powered up through a compliant plug and socket if the vehicle is certified to HVBNZ.
5	BO25	Brakes	Suzie coil hose draw bar, no brakeaway feature	Suzie coil hose on full trailer draw bar with no means of activating the breakaway feature.	Green	
5	BO26	Brakes	Adjustment out - 1 brake PSV laden	PSV is laden and has one brake outside adjustment specified in CoF/ manufacturers standard.	Pink	In service.
5	BO27	Brakes	Adjustment out - 1 brake PSV unladen	PSV is unladen and has one brake outside adjustment specified in CoF/ manufacturers standard.	Green 2	Out of service.
5	BO28	Brakes	Part of brake mechanism in contact with part of the vehicle - could cause damage/wear	Any part of a brake mechanism is in contact with any part of the vehicle in a way that could cause damage or wear such as chafing.	Green 2	
5	BO29	Brakes	Brake drum carrier loose	A brake drum carrier is loose.	Green	
5	BO30	Brakes	Vehicle certified only to IHVBS in combination between 39,000kg - 44,000kg GCM - combination not listed on towing vehicle's CoL	A vehicle certified only to the IHVBS is used in a combination between 39,000kg and 44,000kg GCM but that combination is not listed on the towing vehicle's CoL.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	BP01	Brakes	Performance of service brake does not meet legal requirements	The performance of a service brake does not meet the legal requirements.	Pink	A service brake must be capable of stopping a vehicle under all conditions of loading within a distance of 7m from a speed of 30 km/h (50% average efficiency). Or performance tests from a roller brake machine which produce less than 50% average efficiency. Refer to the VIRM: In-service certification (WoF and CoF) for exemptions and details.
5	BP02	Brakes	Required park brake or emergency brake not fitted	A required park brake or emergency brake is not fitted.	Pink	
5	BP03	Brakes	Park/emergency brake does not act on at least 40% the road wheels	A park brake or emergency brake does not act on at least 40% of the number of road wheels.	Green	
5	BP05	Brakes	Performance of park brake does not meet legal requirements	The performance of a park brake does not meet the legal requirements.	Pink	A park brake must be capable of holding a vehicle under all conditions of loading on a slope of 18% and, where it is incorporated in the emergency brake, must be capable of stopping the vehicle under all conditions of loading within a distance of 18m from a speed of 30 km/h (20% average efficiency) OR when tested on an approved roller brake machine have an efficiency of at least 20% (0.2g deceleration). Refer to the VIRM: In-service certification (WoF and CoF) and the Heavy vehicle brake testing; CoF and entry certification brake test protocol and procedure document for exemptions and details.
5	BR01	Brakes	Cable damaged – damage significantly weakens cable/prevents free operation	A cable is damaged eg knotted, corroded, chafed or has broken strands. The damage significantly weakens the cable or prevents its free operation.	Pink	
5	BR02	Brakes	Cable is damaged – damage does not significantly weaken cable/prevent free operation	A cable is damaged eg knotted, corroded, chafed or has broken strands. The damage does not significantly weaken the cable or prevent its free operation.	Green 2	
5	BR03	Brakes	Cable join unsuitable	A cable is joined in an unsuitable way or is fitted with an auxiliary tensioner.	Green 2	
5	BR04	Brakes	A rod is damaged – weakens rod/prevents free operation	A rod is damaged eg bent, corroded or chafed. The damage significantly weakens* the rod or prevents its free operation.	Pink	*The cross-sectional area is reduced by >25%.
5	BR05	Brakes	A rod is significantly damaged – does not weaken rod/prevent free operation	A rod is damaged, eg bent, corroded or chafed. The damage does not significantly weaken the rod or prevents its free operation.	Green 2	
5	BS01	Brakes	Brake fails to release immediately after brake pedal released	A brake fails to release immediately after the brake pedal is released.	Pink	
5	BS02	Brakes	Brake does not function properly on any wheel equipped for braking	A brake does not function properly on any wheel equipped for braking.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	BS03	Brakes	Brakes do not apply simultaneously on two wheels with a common axle	Brakes do not apply simultaneously on two wheels with a common axle.	Pink	
5	BS04	Brakes	ABS/EBS system is non-operational but brakes do operate	An ABS/EBS system is non-operational but brakes do operate.	Green	
5	BS05	Brakes	Required service brake is not fitted	A required service brake is not fitted.	Pink	
5	BS06	Brakes	Service brake does not act on all wheels (if required)	A service brake does not act on all wheels - (if required).	Pink	
5	BS07	Brakes	Service brake on single steer front axle unbalanced (imbalance >30%,marked deviation)	The service brake on a common axle is unbalanced. The imbalance exceeds 30% on a single steer front axle or there is a marked deviation from a straight path when the brake is applied.	Pink	
5	BS08	Brakes	The service brake on a front axle (not single steer) is unbalanced (imbalance >30%)	The service brake on a common steer axle is unbalanced. The imbalance exceeds 30% on a steering axle other than a single steer front axle.	Green	
5	BS09	Brakes	The service brake on an axle is unbalanced (imbalance >30%)	The service brake on a common axle is unbalanced. The imbalance is greater than 30% on an axle other than a single steer front axle.	Green 2	
5	BS10	Brakes	Brake pedal not securely fastened - detachment imminent or brake contacts vehicle structure/fittings	A brake pedal is not securely fastened. Detachment is imminent or the pedal is loose so that it can contact the vehicle structure or any fittings.	Pink	
5	BS12	Brakes	Brake pedal not securely fastened. Detachment not imminent, pedal may or may not be loose	A brake pedal is not securely fastened. The pedal is loose (eg there is significant sideways movement) but it cannot contact the structure or any fittings and/or detachment is not imminent and the pedal cannot contact the vehicle structure/fittings.	Green 2	
5	BT01	Brakes	Trailer emergency brake does not apply automatically when brake coupling separated	The emergency brake of a trailer does not apply automatically when the brake coupling is separated.	Pink	
5	BT02	Brakes	Suzie fitted to trailer without air supply disconnecter	A suzie is fitted to a trailer, other than a semi-trailer, without a device that disconnects the air supply when the trailer disconnects.	Green	
5	BV01	Brakes	Spring brake air circuit - non-compounding valve not fitted	A spring brake air circuit does not have a non-compounding valve fitted .	Green	Non-compounding valves are not required on some models. In such cases written confirmation from the manufacturer or the manufacturer's representative is required and the brake system must be unmodified.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	BV02	Brakes	Required spring brake emergency release control not fitted/cannot be operated from the driver's seat/air supply unprotected	A required spring brake emergency release control is not fitted, cannot be operated from the driver's seat ¹ , or sources its air supply from a reservoir that is not protected ² .	Green	1. Trailer spring brakes do not have to be capable of being released from the towing vehicle's cab provided that they can be released using air from a trailer mounted emergency reservoir and the emergency release valve is located in a position that is protected from the chassis rail or fitted with a guard and is inconspicuous and can be accessed without danger to the operator. 2. Air for the release of spring brakes/electric brakes after an automatic application due to loss of service brake pressure must be sourced in a PSV from a protected reservoir, or, in a GSV SPV from a protected reservoir or the spare wheel. The reservoir must be protected from the service brake system by a one way valve. Note: Split service brake systems do not have protected release systems.
5	BV03	Brakes	Spring brake/electric brake control for parking brakes not protected from inadvertent release	A spring brake/electric brake control used for operating the parking brakes is not protected from inadvertent release.	Green	
5	BV04	Brakes	Brake reservoir condensate drain valve missing (if required), does not operate manually or not located at lowest point of reservoir	A brake reservoir condensate drain valve is missing (if required), does not operate manually or is not located at the lowest point of the reservoir as per brake code or schedule S.	Green	
5	BW01	Brakes	Brake chamber (including clamps)/ camshaft support bracket loose/bent/ cracked/corroded - detachment/failure imminent on a single steer front axle	A brake chamber (including chamber clamps) or camshaft support bracket is loose, bent, cracked or corroded. Detachment or failure is imminent on a single steer front axle.	Pink	
5	BW02	Brakes	Brake chamber (including clamps)/ camshaft support bracket loose/bent/ cracked/corroded - detachment/failure not imminent	A brake chamber (including chamber clamps) or camshaft support bracket is loose, bent, cracked or corroded. Detachment or failure are not imminent on a single steer front axle.	Green	
5	BW03	Brakes	Stroke of brake chamber exceeds manufacturer's limit - service brake performance doesn't meet legal requirements	The stroke of the brake chamber exceeds the manufacturer's limit. Performance in BPO1 not met (service brake performance doesn't meet legal requirements).	Pink	
5	BW04	Brakes	Stroke of brake chamber exceeds manufacturer's limit - service brake performance meets legal requirements	The stroke of the brake chamber exceeds the manufacturer's limit. Performance in BPO1 met.	Green 2	
5	BW05	Brakes	Calliper/wheel cylinder leaks or there is audible air leak from brake chamber	A calliper or wheel cylinder leaks, or there is an audible air leak from a brake chamber.	Green	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	IPO1	Brakes	Insufficient reserve pedal travel: brake bottoms out before fully applied – hydraulic	There is insufficient reserve pedal travel. The pedal bottoms out before the brake is fully applied – hydraulic.	Pink	ie not in good adjustment.
5	IPO2	Brakes	Hydraulic system: less than 1/3 of pedal travel remains when the brake is fully applied. Air system: treadle valve fully open only toward very end of pedal travel	There is insufficient reserve pedal travel. For a hydraulic system, less than 1/3 of pedal travel remains when the brake is fully applied; or for an air system, the treadle valve is fully open only toward the very end of pedal travel.	Green	
5	IPO3	Brakes	Friction surface of brake pedal worn or missing	The friction surface of a brake pedal is worn or missing.	Green 2	
5	IPO4	Brakes	The park brake actuator is missing/not operational/does not lock into position, remains applied when released, is not securely fastened & may detach. Risk of inadvertent release	A park brake actuating lever is missing or not operational or does not lock into position and remain permanently applied or remains applied when released or is not securely fastened and may detach or there is a risk of inadvertent release.	Pink	
5	IPO6	Brakes	Lever not securely fastened, detachment not imminent	A lever is not securely fastened. Detachment is not imminent and there is no risk of the brake being released inadvertently.	Green 2	
5	IPO7	Brakes	There is excessive lever travel – less than 1/3 of lever travel remains when the brake is fully applied	There is excessive lever travel – less than 1/3 of lever travel remains when the brake is fully applied.	Green	
5	IPO8	Brakes	Excessive lever travel – more than 1/3 of lever travel remains when the brake is fully applied	There is excessive lever travel – more than 1/3 of lever travel remains when the brake is fully applied.	Green 2	

SUSPENSION LEVEL 5

5	UA01	Suspension	Suspension component not fitted/not securely fitted	A suspension component, including a shock absorber where required, is not fitted or not securely fitted.	Pink	
5	UA02	Suspension	Shock absorbers missing damaged or leaking excessively	A shock absorber is damaged or leaking excessively.	Green 2	
5	UB01	Suspension	Air spring/air bag deflated or leaks – bellow strength adversely affected. Laden	An air spring is deflated, leaks, or the strength of a bellow is adversely affected through damage or deterioration and/or abrasion. Protruding, exposed or worn cords and the vehicle is laden.	Pink	
5	UB03	Suspension	No rebound arrestor	Rebound arrestor is missing.	Green 2	
5	UB04	Suspension	A spring eye or suspension rubber damaged, deteriorating or showing signs of bonding failure – includes torque rod bushes and mount bolts	A spring eye or suspension rubber shows signs of bonding failure between the rubber and metal elements, (includes torque rod bushes and mount bolts) or is significantly damaged or deteriorated so that the operation or retention of the spring is adversely affected – signs of failure.	Green 2	
5	UB07	Suspension	Air bag damaged or fully deflated – unladen	Air bag bellows has obvious external damage – protruding, exposed or worn cords – or fully deflated, with vehicle in unladen condition.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	UB08	Suspension	Lash limiter severely worn or missing	Lash limiter for spring severely worn or missing.	Green 2	
5	UG02	Suspension	Load sensing valve lever arm detached	Load sensing valve assembly is loose, leaking or damaged, modified or the lever arm has detached.	Green	
5	UL01	Suspension	Spring not fit for purpose	A spring is not fit for its purpose.	Green	Impact damage on suspension stops may indicate that the springs are too soft.
5	UL03	Suspension	Spring sagged	A spring is sagged so that the vehicle's ride height on the side of the spring is >50mm lower than on the opposite side.	Green 2	>75mm unladen; <75mm laden.
5	UL05	Suspension	A spring eye or suspension rubber damaged, deteriorating or showing signs of bonding failure - total failure - includes torque rod bushes and mount bolts	A spring eye or suspension rubber shows signs of bonding failure between the rubber and metal elements, (includes torque rod bushes and mount bolts) is significantly damaged or deteriorated so that the operation or retention of the spring is adversely affected - total failure which effects vehicle tracking, not effecting control.	Green	
5	UL06	Suspension	Coil spring broken	Coil spring(s) broken.	Pink	
5	UL07	Suspension	Leaf spring broken - locates the axle. Or seriously damaged, missing or cracked	Leaf spring(s) that locates the axle are broken (applies only to main leaf). The main leaf(s) or more than 1/4 of the leaves in one leaf spring assembly are missing, damaged or cracked or a spring or one of its components is damaged, eg excessively worn ¹ or corroded, broken, welded, distorted, or cracked ²	Pink	1. Wear in suspension pins and bushings must not exceed: for pins. 2. In the case of a leaf spring, particular attention should be paid to the areas near the spring eye in the main leaf.
5	UL08	Suspension	Leaf spring broken - doesn't locate the axle	Leaf spring(s) that does not locate the axle (applies to all supporting leaves).	Green 2	
5	UL09	Suspension	Spring slipper box spring not retained	Spring slipper box is worn or broken so that the spring is no longer restrained.	Pink	
5	UL10	Suspension	Spring slipper box cracked	Spring slipper box cracked or damaged but the spring is still retained.	Green 2	
5	UP01	Suspension	Bushes and linkages worn - load sensing functionality not adversely affected	Bushes and linkages are worn but load sensing functionality is not adversely affected.	Green 2	
5	UX01	Suspension	Spring media within an axle set not all of same type	Spring media within an axle set are not all of same type.	Green	
5	UX02	Suspension	Axle set clearly not load sharing	An axle set is clearly not load sharing eg a balance beam between two dual tyred axles is not of equal length.	Green	
5	UX03	Suspension	Alloy mount cracked, corroded or damaged	The alloy air bag mount is cracked, corroded or damaged.	Green	
5	UX04	Suspension	Axle position displaced	Axle position is displaced.	Pink	
5	UX05	Suspension	Axle locating device broken or missing - includes loose "U" bolts	Axle locating device is broken or missing (radius arm, U-bolt, centre bolt, etc).	Pink	
5	UX06	Suspension	Axle locating device loose - includes loose "U" bolts	Axle locating device loose or worn beyond safe tolerance - failure not imminent.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
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PSV ONLY SUSPENSION LEVEL 5

5	UG03	PSV only suspension	Suspension safeguard or mounting damaged	A suspension safeguard or its mounting is damaged, eg insecure, bent, cracked, excessively corroded or otherwise weakened but the spring is secure.	Green 2	
5	UG04	PSV only suspension	Suspension safeguard or mounting detachment imminent	A suspension safeguard or its mounting is damaged and detachment is imminent or there is a broken spring.	Green	

CHASSIS LEVEL 5

5	CC01	Chassis	Cross member is broken	Cross member is broken, missing, severely damaged by corrosion, there is an open crack or there is a crack and there has been a previous repair.	Pink	Certification required if second or subsequent repair (LT400).
5	CC02	Chassis	Cross member has a visible crack	Cross member has a visible crack and no previous repair.	Green	Certification required if second or subsequent repair (LT400).
5	CC03	Chassis	Chassis or cross-member fastenings insecure (pink)	Chassis or cross-member fastenings are visibly loose or insecure and have signs of movement - rivets, nuts, bolts or any other type of fastening. Unsafe condition.	Pink	
5	CC04	Chassis	Chassis or cross-member fastenings insecure (green 2)	Chassis or cross-member fastenings are visibly loose or insecure and have signs of movement - nuts, bolts or any other type of fastening that requires only retightening. New CoF not required.	Green 2	
5	CC05	Chassis	Monocoque construction showing signs of imminent failure	A vehicle of monocoque construction shows signs of failure above the threshold in Appendix 2 in the back of this manual.	Pink	See Appendix 2: Assessing composite monocoque vehicle defects. Requires certification (LT400).
5	CC06	Chassis	Monocoque construction showing signs of failure	A vehicle of monocoque construction shows signs of failure but less than the threshold in Appendix 2 in the back of this manual.	Green	See Appendix 2: Assessing composite monocoque vehicle defects. Requires certification (LT400).
5	CC07	Chassis	Monocoque construction showing signs of possible failure	A vehicle of monocoque construction shows signs of failure but less than the threshold in Appendix 2 in the back of this manual.	Green 2	See Appendix 2: Assessing composite monocoque vehicle defects.
5	CC08	Chassis	Chassis has severe corrosion or rust heave	Chassis has corrosion with flaking rust and significant reduction of material thickness or rust heave.	Green	<p>1. Corrosion is most likely to occur in areas where moisture is retained. If "rust heave" between a chassis member and a fixture exceeds twice the thickness of the chassis member, or a maximum of 6mm, the chassis should be inspected by a specialist certifier. Particular attention should be paid to any vehicle used to carry stock, fertiliser or corrosive cargo. Rust stains can indicate the fretting or movement between two components. This can be caused by loose fasteners or by cracking. 2. Chassis cracking is most likely to occur in the following areas: abrupt changes in the area; adjacent to welds; body mounting points; adjacent to loose fasteners; and notches. Requires certification (LT400).</p>

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	CD01	Chassis	Load containment structure damaged or not securely fitted – risk of failure, vehicle loaded	Any part of a load containment structure is damaged or not securely fitted; there is significant risk of the structure failing and the vehicle is loaded.	Pink	
5	CD02	Chassis	Load containment structure damaged or not securely fitted – risk of failure, vehicle unloaded	Any part of a load containment structure is damaged or not securely fitted; there is significant risk of the structure failing but the vehicle is not loaded.	Green	
5	CD03	Chassis	Attachment points broken or missing. 1/3 or more attachment points are loose and the vehicle is laden	Attachment points for subframe or body broken or missing or severely damaged by corrosion or the attachment points of the subframe or body are missing, broken or visibly loose on more than 1/3 of one side – vehicle is laden.	Pink	Requires certification (LT400).
5	CR01	Chassis	Chassis rail, cross-members, deck attachments, or cab and body attachments damaged – risk of failure/unsafe operation, vehicle loaded	Chassis rail, cross-members, deck attachments, or cab and body attachments are damaged (eg corroded ¹ , deformed or cracked ²), or not securely fitted); there is a significant risk of a component failing or the vehicle cannot be operated safely and the vehicle is loaded.	Pink	1. Corrosion is most likely to occur in areas where moisture is retained. If "rust heave" between a chassis member and a fixture exceeds twice the thickness of the chassis member, or a maximum of 6mm, the chassis should be inspected by a specialist certifier. Particular attention should be paid to any vehicle used to carry stock, fertiliser or corrosive cargo. Rust stains can indicate the fretting or movement between two components. This can be caused by loose fasteners or by cracking. 2. Chassis cracking is most likely to occur in the following areas; abrupt changes in the area adjacent to welds and body mounting points; adjacent to loose fasteners and notches. Requires certification (LT400).
5	CR02	Chassis	Chassis rail, cross-members, deck attachments, or cab and body attachments damaged – risk of failure/unsafe operation, vehicle not loaded	Chassis rail, cross-members, deck attachments, or cab and body attachments are damaged (eg corroded ¹ , deformed or cracked ²), or not securely fitted); there is a significant risk of a component failing or the vehicle cannot be operated safely but the vehicle is not loaded.	Green	1. Corrosion is most likely to occur in areas where moisture is retained. If "rust heave" between a chassis member and a fixture exceeds twice the thickness of the chassis member, or a maximum of 6mm, the chassis should be inspected by a specialist certifier. Particular attention should be paid to any vehicle used to carry stock, fertiliser or corrosive cargo. Rust stains can indicate the fretting or movement between two components. This can be caused by loose fasteners or by cracking. 2. Chassis cracking is most likely to occur in the following areas; abrupt changes in the area adjacent to welds and body mounting points; adjacent to loose fasteners and notches. Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	CR03	Chassis	Chassis rail crack on flange >30mm or web >60mm	Chassis rail has a visible crack either on the flange greater than 30mm or on the web greater than 60mm or that extends at least partially through both the flange and the web of the rail and/or a chassis rail is buckled or twisted and it is clearly visible.	Pink	Chassis cracking is most likely to appear in the following areas: abrupt changes in the area; adjacent to welds; body mounting points; adjacent to loose fasteners; notches. Requires certification (LT400).
5	CR04	Chassis	Chassis rail crack to flange and web of rail	Chassis rail has a visible crack that extends at least partially through to both the flange and web of the rail.	Pink	Requires certification (LT400).
5	CR05	Chassis	Chassis rail clearly buckled or twisted	Chassis rail is buckled or twisted and it is clearly detectable.	Pink	Requires certification (LT400).
5	EB01	Chassis	Sub-frame or body attachment bolts loose - unladen	Sub-frame or body attachment bolts, nuts or other types of fastening are loose but not missing and vehicle is unladen.	Green 2	
5	VC01	Chassis	Wheelbase or axle change not on loading cert	Wheelbase extended or shortened, axle is added or removed, and details of wheelbase axle spacing are not recorded on the loading certificate.	Green	Requires certification (LT400).

PSV ONLY CHASSIS DEFECTS LEVEL 5

5	MS01	Chassis	Drive shaft surround does not surround the drive shaft	A drive shaft surround does not surround the drive shaft or would not prevent the drive shaft from striking the ground, chassis or floor or there has been detachment of the driveshaft retention device.	Green	
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DRIVELINE LEVEL 5

5	MD01	Driveline	Drive shaft damaged - failure imminent	A drive shaft is bent, dented, has excessive play, or is otherwise damaged and failure is imminent.	Pink	Buildup of foreign material on the shaft is also not permitted.
5	MD02	Driveline	Drive shaft damaged - failure not imminent	A drive shaft is bent, dented, has excessive play, or is otherwise damaged, failure is not imminent.	Green	Buildup of foreign material on the shaft is also not permitted.
5	MD03	Driveline	Outboard yoke is loose - failure imminent	An outboard yoke is loose and failure is imminent.	Pink	Yoke flange retaining nuts and bolts, and end yoke securing nuts must be tight and should not have signs of movement such as fretting (rust stains or bright metal surfaces immediately surrounding nuts or bold heads) or gaps between mating surfaces. Movement can be checked by grasping the trunnions of the outboard yoke with both hands and try to move it vertically and horizontally. There must not be any lateral movement. Build up of foreign material on the shaft is also not permitted.
5	MD04	Driveline	Outboard yoke is loose - failure not imminent	An outboard yoke is loose, failure is not imminent.	Green 2	
5	MD05	Driveline	Fastener missing or loose	A fastener securing a component of a shaft, support, bearing, or input or output flange is missing or loose or lock tabs, if required, are not fitted or they are fitted and not locked.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	MD06	Driveline	Spider (cross) bearing damaged – circlip or cap bolt missing	A spider (cross) bearing is damaged or has a cap bolt or circlip missing.	Pink	
5	MD07	Driveline	Spider (cross) bearing damaged – seal displaced or missing	A spider (cross) bearing is damaged or has a seal displaced, missing or damaged.	Green	
5	MD09	Driveline	Universal joint bearing cap loose or rotating	A universal joint bearing cap is loose or rotating in the yoke.	Green	
5	MD10	Driveline	Universal joint worn – failure imminent	A universal joint is worn and failure is imminent.	Pink	Movement in the spider and trunnion bearings can be checked by grasping the shaft adjacent to the universal with both hands and try to move the yoke vertically and horizontally. There should be <0.15mm of movement in either the horizontal or vertical directions.
5	MD11	Driveline	Universal joint worn – failure not imminent	A universal joint is worn but failure is not imminent.	Green 2	
5	MD12	Driveline	Drive shaft yokes out of phase	A drive shaft yoke or universal in the drive shaft assembly is out of phase.	Green 2	
5	MD13	Driveline	Shaft bearing or slip joint worn or loose – failure imminent	A shaft bearing or slip joint is worn or loose and failure is imminent.	Pink	Movement in the slip joint can be checked by grasping the shaft tube near the slip joint with both hands and try to move the shaft laterally. There should be <0.30mm of lateral movement. Slip joint boots should be properly attached and free from tears and punctures.
5	MD14	Driveline	Shaft bearing or slip joint worn or loose – failure not imminent	A shaft bearing or slip joint is worn or loose but failure is not imminent.	Green 2	
5	MD15	Driveline	Grease nipple damaged or missing	A grease nipple fitted to a universal joint or slip joint is damaged or missing.	Green 2	
5	MD17	Driveline	Drive-shaft flange or universal joint loose	Drive-shaft flange or universal joint are loose, worn or missing a bolt or nut.	Pink	
5	MD18	Driveline	Centre bearing insecure, worn or damaged	Drive-shaft centre bearing hanger or rubber insecure, damaged, dislodged or perished.	Pink	

TYRES AND WHEELS LEVEL 5

5	WT01	Tyres and wheels	Wheel is not securely fitted to the vehicle – detachment imminent	A wheel is not securely fitted to the vehicle and two or more wheel nuts/studs are missing, or detachment of the wheels is imminent.	Pink	
5	WT02	Tyres and wheels	Wheel is not securely fitted to the vehicle – detachment not imminent	A wheel is not securely fitted to the vehicle less than two wheel nuts/studs are missing, detachment of the wheel is not imminent.	Green	
5	WT03	Tyres and wheels	Tyre profile mismatch	Tyres on a common axle of a vehicle are of different size or construction.	Green 2	
5	WT04	Tyres and wheels	Incorrect tyre size for rim	A tyre is not of the correct size for the rim to which it is fitted.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	WT05	Tyres and wheels	Tyre load capacity insufficient	The load capacity of a tyre is insufficient.	Green 2	Based on the vehicle's statutory weight limit or CoL load rating.
5	WT06	Tyres and wheels	Directional tyre fitted in wrong direction	A directional tyre is fitted against the direction indicated on the tyre.	Green 2	
5	WT07	Tyres and wheels	Fitted with tyre not intended for use on road	A tyre is fitted that is not intended for use on public roads or with the vehicle to which it is fitted eg a tyre is clearly marked "not for highway use", "for racing purposes only", or "for trailer use only" (if used on a vehicle other than a trailer).	Pink	
5	WT08	Tyres and wheels	Spare wheel not securely fitted - detachment imminent	A spare wheel is not securely fitted to the vehicle or the securing mechanism is in poor condition, missing, damaged or modified, and detachment is imminent.	Pink	Modifications to the spare wheel securing mechanism require certification.
5	WT09	Tyres and wheels	Spare wheel not securely fitted - detachment not imminent	A spare wheel is not securely fitted to the vehicle or the securing mechanism is in poor condition, missing, damaged or modified but detachment is not imminent.	Green	Modifications to the spare wheel securing mechanism require certification.
5	WT10	Tyres and wheels	Tread insufficient - operated in rain	A vehicle is fitted with a tyre that does not have a tread depth of at least 1.5mm within all principal grooves containing moulded tread depth indicators on the steering axle or both tyres in a dual tyre set and the vehicle is operated in rain.	Pink	See Walk around inspection criteria - to be the same as the WAI. Does not apply to exempt tyres.
5	WT11	Tyres and wheels	Tread insufficient - not operated in rain	A vehicle is fitted with a tyre that does not have a tread depth of at least 1.5mm across 3/4 of the tread width and the vehicle is not operated in rainy conditions.	Green	See Walk around inspection criteria - to be the same as the WAI. Does not apply to exempt tyres.
5	WT12	Tyres and wheels	Tyre not correctly inflated - operation/control affected	A tyre is not correctly inflated (the tyre is flat) and the incorrect pressure adversely affects the operation or control of the vehicle.	Pink	Tyres must be inflated to the inflation pressure recommended by the vehicle manufacturer for that tyre, under the applied loading and service conditions but not greater than: radial ply 825kpa and bias ply: 700kpa.
5	WT13	Tyres and wheels	Tyre not correctly inflated - operation/control not affected	A tyre is not correctly inflated (the tyre is flat) but the incorrect pressure does not adversely affect the operation or control of the vehicle.	Green 2	
5	WT14	Tyres and wheels	A tyre is damaged - operation affected and/or failure imminent	A tyre shows a lump or bulge, a cut reaching the body cords or exceeding 25mm in length, or other significant damage, and failure of the tyre is imminent or the vehicle cannot be operated safely.	Pink	
5	WT15	Tyres and wheels	A tyre is damaged - operation affected	A tyre shows a lump or bulge, a cut reaching the body cords or exceeding 25mm in length, or other significant damage, and operation of the vehicle is adversely affected but failure is not imminent.	Green	
5	WT16	Tyres and wheels	A tyre is damaged - operation not affected	A tyre shows a lump or bulge, a cut reaching the body cords or exceeding 25mm in length, or other significant damage, but operation of the vehicle is not adversely affected and failure is not imminent.	Green 2	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	WT17	Tyres and wheels	Tyre string repair from outside	A tyre is repaired using a string repair from the outside.	Green 2	
5	WT18	Tyres and wheels	Re-grooved tyre not intended to be re-grooved	A re-grooved tyre is not intended to be re-grooved.	Pink	
5	WT19	Tyres and wheels	Re-grooved tyre on vehicle used at speeds above 50km/h	A re-grooved tyre is not intended to be re-grooved, or is fitted to a vehicle that is used at speeds above 50km/h but not covered by an exemption.	Pink	
5	WT20	Tyres and wheels	Alloy or steel rim damaged – operation affected and/or failure imminent	An alloy or steel rim is damaged – a rim is cracked or distorted, or there is other significant damage, and failure of the rim is imminent or the vehicle cannot be operated safely.	Pink	
5	WT22	Tyres and wheels	Alloy or steel rim damaged – operation not affected	An alloy or steel rim is damaged – a rim is cracked or distorted, or there is other significant damage, safe operation not affected.	Green 2	
5	WT23	Tyres and wheels	Tyre contact with body or frame	Tyre(s) show evidence of sustained running contact with body, frame, chassis, suspension, etc also refer to suspension section.	Green	
5	WT24	Tyres and wheels	Tyre delaminating – tread area (retread)	Tyre delaminating in tread area of a retread.	Pink	
5	WT29	Tyres and wheels	Cord damage steering axle	Cord(s) are damaged on a steering axle tyre.	Pink	
5	WT30	Tyres and wheels	Cord damage non-steering axle	Cord(s) are damaged on a non-steering axle tyre.	Green 2	Refer to VIRM: In-service certification (WoF and CoF) for details. See Figure 10-1-5 for details.
5	WT31	Tyres and wheels	Cord damage non-steering axle	Cord(s) are damaged on a non-steering axle tyre and cords are showing in the "tread block" area.	Green	Refer to VIRM: In-service certification (WoF and CoF) for details. See Figure 10-1-5 for details.
5	WT32	Tyres and wheels	Tyre profile mismatched – vehicle laden	Tyre profiles are mismatched with the vehicle laden.	Green	Refer to VIRM: In-service certification (WoF and CoF) for details. See Figure 10-1-5 for details.
5	WT33	Tyres and wheels	Side wall bulge	Sidewall has a bulge protruding greater than 10mm high.	Pink	
5	WT34	Tyres and wheels	Side wall bulge	Sidewall has a bulge protruding no greater than 10mm high.	Green 2	
5	WT35	Tyres and wheels	Side wall unzipping	Side wall unzipping/split and cords damaged.	Pink	
5	WT36	Tyres and wheels	Wheel Nuts loose	Any wheel nuts loose.	Green 2	
5	WT37	Tyres and wheels	Wheel stud holes elongated	Wheel stud holes elongated on any wheel.	Pink	
5	WT38	Tyres and wheels	Wheel studs/nuts missing, vehicle laden	Wheel studs/nuts missing on the same wheel (2 or more) and vehicle is laden. (Wheel detachment is imminent).	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	WT39	Tyres and wheels	Wheel studs/nuts missing, vehicle unladen	Wheel studs/nuts missing on the same wheel (2 or more) and vehicle is unladen.	Green	
5	WT40	Tyres and wheels	Studs/nuts 1 missing, vehicle laden	Wheel stud/nut one only missing with vehicle laden.	Green	
5	WT41	Tyres and wheels	Studs/nuts 1 missing or loose, vehicle unladen	Wheel stud/nut one only missing with vehicle unladen if the hub has more than 6 studs.	Green 2	
5	WT42	Tyres and wheels	Studs/nuts 1 missing on spider hubs	Wheel stud/nut one only missing on 5/6 bolt/stud spider hubs.	Green 2	
5	WT43	Tyres and wheels	Spare wheel carrier insecure	Spare wheel carrier and/or wheel insecure and detachment imminent.	Pink	
5	WT44	Tyres and wheels	Tread in dual set 1 tyre below minimum	Tyre tread depth insufficient on one tyre of a dual set and vehicle is a PSV.	Green	

MUDGUARDS LEVEL 5

5	WG01	Mudguards	Mudguard or mudflap not fitted	A mudguard or mudflap is not fitted over appropriate road wheel.	Pink	Refer VIRM: In-service certification (WoF and CoF) VIRM: In-service certification (Wof and CoF) for exemptions.
5	WG02	Mudguards	Mudguard or mudflap not effective/does not comply	A mudguard or mudflap is not effective or does not comply with applicable requirements.	Green 2	Refer to VIRM: In-service certification (WoF and CoF) for exemptions.
5	WG03	Mudguards	Mudguard or mudflap not securely fitted or is detaching	A mudguard or mudflap is not securely fitted or is detaching. It is dangerous or detachment is imminent and cannot be mitigated at roadside.	Pink	Refer to VIRM: In-service certification (WoF and CoF) for exemptions.
5	WG06	Mudguards	Mudguard/mudflap assembly detaching. Road side fix	Mudguard or mudflap assembly is not securely fitted or is detaching and may become dangerous but danger can be mitigated at road side.	Green	Refer to VIRM: In-service certification (WoF and CoF) for exemptions.
5	WG07	Mudguards	Mudguard/mudflap missing from last axle combination	Mudguard or mudflap is missing from last axle in a combination.	Pink	Mudguard and mudflap may be separate. See technical detail.

BALL-RACE TURNTABLE LEVEL 5

5	BC24	Ball-race turntables	Ball-race turntable cracked	Ball-race turntable cracked .	Pink	Requires certification (LT400).
5	BC25	Ball-race turntables	Ball-race turntable missing 1 bolt	Ball-race turntable missing one bolt but others are tight.	Green 2	
5	BC26	Ball-race turntables	Ball-race turntable missing more than 1 bolt	Ball-race turntable missing more than one bolt.	Green	
5	BC27	Ball-race turntables	Turntable fasteners loose (other)	Ball-race turntable has any loose fasteners not in other categories.	Green 2	
5	BC28	Ball-race turntables	Turntable mount bolt holes cracked	Ball-race turntable mounting bolt holes cracked.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	BC29	Ball-race turntables	Turntable contact between top and bottom plates	Ball-race turntable shows evidence of contact between top and bottom mounting bolts or plates.	Pink	
5	BC31	Ball-race turntables	Turntable bolts loose - up to 25% (max 3)	Ball-race turntable bolts loose - lesser of 25% or a maximum of 3 or 2 or less in a quadrant.	Green	
5	BC32	Ball-race turntables	Turntable bolts loose - more than 25% or 3	Ball-race turntable bolts loose - more than 3 or more than 2 in a quadrant, or more than 25%.	Pink	
5	BC33	Ball-race turntables	Turntable ring cracking around circumference	Ball-race turntables ring any cracking around circumference.	Pink	Requires certification (LT400).
5	TC01	Ball-race turntables	Ball-race turntable damaged/not securely fitted - immediate risk of failure	A ball-race turntable is damaged, worn or not securely fitted to a vehicle, the integrity of the ball-race turntable is significantly compromised and there is an immediate risk of failure.	Pink	For example, the top or bottom flange has <7 effective bolts; there are cracks through >20% of original welds or parent metal; the upper and lower race surfaces/flanges/bolts are in contact. Requires certification (LT400).
5	TC02	Ball-race turntables	Ball-race turntable damaged/not securely fitted - no immediate risk of failure	A ball-race turntable is damaged, worn or not securely fitted to a vehicle, the integrity of the turntable may be compromised but there is no immediate risk of failure.	Green	

TOW COUPLINGS AND 5TH WHEEL LEVEL 5

5	TB01	Tow couplings and 5th wheel	Towing eye worn, welded or heat treated in a way not permitted by manufacturer	A towing eye is worn beyond the manufacturer's limit or is repaired, welded or heat treated in a way not permitted by the manufacturer.	Pink	A Ø 40mm pin type eye exceeds 41.6mm, or a Ø 50mm pin type eye exceeds 51.5mm; or any section of the eye is reduced by >20% ("Go/no-go" range).
5	TB02	Tow couplings and 5th wheel	Pivot/bush clearance 1/8 of pin diameter	The pivot/bush clearance of a drawbar hinge assembly exceeds 1/8 of pin diameter.	Green 2	
5	TB03	Tow couplings and 5th wheel	Bottom Bush more than 4mm wear	Tow coupling bottom bush has more than 4mm wear or other wear outside manufacturer's specifications.	Green 2	
5	TB04	Tow couplings and 5th wheel	Go/no-go gauge fits through tow-eye bush thrust faces	Go/no-go gauge passes through the the tow-eye bush thrust faces.	Green	A Ø 40mm pin type eye exceeds 41.6mm, or a Ø 50mm pin type eye exceeds 51.5mm; or any section of the eye is reduced by >20% ("Go/no-go" range). Requires certification (LT400).
5	TB05	Tow couplings and 5th wheel	Tow-eye bolt loose in tow-eye	Any play in a bolted tow-eye.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	TB06	Tow couplings and 5th wheel	Tow-eye bent	There is a bend in a tow-eye greater than 5mm in any plane.	Pink	Requires certification (LT400).
5	TB07	Tow couplings and 5th wheel	Tow-eye bush missing	Tow-eye bush missing.	Pink	Requires certification (LT400).
5	TB08	Tow couplings and 5th wheel	Hinge pin bolts or bushings worn or loose	Draw bar hinge pin bushings excessively worn.	Green	
5	TC03	Tow couplings and 5th wheel	Tow coupling cracks	Tow coupling any cracks in draw bar, draw beam, or coupling.	Pink	Where a tow coupling has cracks in the shroud which is a bolt on, non structural component there is no fault. On Ringfedder models where the shroud is a cast structural component cracking/repair is allowed within 50mm of the lip on the leading edge (refer manufacturer's technical date). Requires certification (LT400).
5	TC04	Tow couplings and 5th wheel	Tow couplings mismatched	Tow couplings mismatched (40mm vs. 50mm).	Pink	
5	TC05	Tow couplings and 5th wheel	Base plate wear pad or underside of tow-eye worn more than 4mm	Draw bar base plate wear pad or underside of tow-eye worn more than 4mm.	Green 2	
5	TC06	Tow couplings and 5th wheel	Drop bolt pin blockage prevents secondary system locking	Foreign material in bottom recess for drop bolt pin preventing secondary system locking.	Pink	
5	TC07	Tow couplings and 5th wheel	Go/No-go gauge fits over drop bolt raised section	Go/No-go gauge fits over drop bolt pin raised section.	Green	
5	TC08	Tow couplings and 5th wheel	Tow coupling nut loose or split pin missing	Tow coupling retainer nut loose or split pin missing.	Pink	

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	TC09	Tow couplings and 5th wheel	Certification Plates missing or illegible	The certification plates for a drawbeam or towing connection missing or illegible.	Green 2	Refer to the VIRM: In-service certification (WoF and CoF) for certification or document requirements. Requires certification (LT400).
5	TC10	Tow couplings and 5th wheel	Ground contact prevention device missing	A drawbar is not fitted with a device that prevents the towing eye from contacting the ground, or the device is not effective or not operational.	Green 2	
5	TC11	Tow couplings and 5th wheel	Hinge pin bolt/nut missing	Draw bar hinge pin bolt/nut missing.	Pink	
5	TC12	Tow couplings and 5th wheel	Mounting bolts loose - more than one per side	Mounting bolt loose more than one per side (includes 5th wheel, drawbar, and drawbeam side plates).	Pink	
5	TC13	Tow couplings and 5th wheel	Mounting bolt loose - one per side	Mounting bolt loose one per side (includes 5th wheel, drawbar, and drawbeam side plates).	Green 2	
1	TD01	Tow couplings and 5th wheel	Drawbeam, drawbar or towing connection not certified	A drawbeam, drawbar or towing connection is not certified as required or has expired.	Pink	Refer to the VIRM: In-service certification (WoF and CoF) for certification or document requirements. Requires certification (LT400).
5	TD02	Tow couplings and 5th wheel	Drawbeam/towing connection damaged or not securely fitted - risk of failure in use	A drawbeam is not securely fitted to the vehicle, a towing connection is not securely fitted to the drawbeam, or a drawbeam or towing connection is damaged or cracked. The integrity of the drawbeam or towing connection is significantly compromised and there is an immediate risk of failure if the towing connection is utilised irrespective of whether it is currently in use.	Pink	See technical details in <i>Appendix 5: Damage limits for towing connections</i> . Certification required (LT400).
5	TD04	Tow couplings and 5th wheel	Drawbeam/towing connection damaged or not securely fitted - no immediate risk of failure	A drawbeam is not securely fitted to the vehicle, a towing connection is not securely fitted to the drawbeam, or a drawbeam or towing connection is damaged or cracked. The integrity of the drawbeam or towing connection may be compromised but there is no immediate risk of failure.	Green	See technical details in <i>Appendix 5: Damage limits for towing connections</i> . Certification required (LT400).
5	TD06	Tow couplings and 5th wheel	Drawbeam or towing connection certification label absent -	A drawbeam or towing connection has an expired, invalid or incorrect certification label or document or it is not recorded on the CoL.	Pink	Refer to the VIRM: In-service certification (WoF and CoF) for fifth wheel and kingpin requirements. Requires certification (LT400).
5	TF01	Tow couplings and 5th wheel	Fifth wheel not certified	A fifth wheel is not certified for compliance with NZS5450.	Pink	Refer to the VIRM: In-service certification (WoF and CoF) for fifth wheel and kingpin requirements. Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	TF02	Tow couplings and 5th wheel	Fifth wheel damaged/not securely fitted - risk of failure, in use	A fifth wheel is damaged or not securely fitted to the vehicle. The integrity of the fifth wheel is significantly compromised, there is an immediate risk of failure, and the fifth wheel is in use.	Pink	For example, mounting to frame, mounting plates and pivot brackets: >20% of fasteners on either side are missing or ineffective; sliders: >25% of latching fasteners on either side are missing or ineffective; there is >10mm horizontal movement between pivot bracket pin and bracket, or between slider bracket and slider base; there are cracks through >20% of original welds or parent metal; the top plate is cracked or broken.
5	TF03	Tow couplings and 5th wheel	Fifth wheel damaged/not securely fitted - not in use	A fifth wheel is damaged or not securely fitted to the vehicle. The integrity of the fifth wheel is significantly compromised but the fifth wheel is not in use.	Green	
5	TF05	Tow couplings and 5th wheel	Fifth wheel damaged/not securely fitted - no risk of failure, not in use	A fifth wheel is damaged or not securely fitted to the vehicle. The integrity of the fifth wheel may be compromised but there is no immediate risk of failure, and the fifth wheel is not in use.	Green 2	
5	TF06	Tow couplings and 5th wheel	Fifth wheel not maintained as required	A fifth wheel is not maintained as required or a correctly completed "Operator Statement of Compliance with the Maintenance Requirements of NZS5450" is not available.	Green	
5	TF07	Tow couplings and 5th wheel	5th wheel locking mechanism - primary or secondary - not engaging correctly	5th wheel primary or secondary locking mechanism/latch not engaged.	Pink	Corrected at roadside qualified pink.
5	TF09	Tow couplings and 5th wheel	5th wheel Mounting bolts or fasteners missing	5th wheel has any missing mounting bolts or fasteners.	Pink	
5	TF10	Tow couplings and 5th wheel	Tow coupling not securely attached.	Heavy vehicle to light trailer connection is not securely attached.	Pink	
5	TF11	Tow couplings and 5th wheel	5th wheel no 'stop' to prevent disconnection	5th wheel does not have a 'stop' fitted to prevent accidental disconnection (adjustable sliding type).	Pink	Requires certification (LT400).
5	TK01	Tow couplings and 5th wheel	50mm kingpin not certified	A Ø 50mm kingpin is not certified for compliance with NZS5451.	Green	Refer to the VIRM: In-service certification (WoF and CoF) for fifth wheel and kingpin requirements. Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	TK02	Tow couplings and 5th wheel	Kingpin damaged/not securely fitted - risk of failure	A kingpin is damaged, not securely fitted to the vehicle, or not properly connected to the fifth wheel of the towing vehicle, the integrity of the kingpin or kingpin-fifth wheel connection is significantly compromised and there is an immediate risk of failure.	Pink	For example, the locking mechanism does not securely hold the pin because of parts missing, broken or deformed; the kingpin is deformed, cracked or not properly engaged; a bolted upper assembly has <7 12mm bolts or <5 bolts of ≥16mm on either side. Requires certification (LT400).
5	TK03	Tow couplings and 5th wheel	Kingpin damaged/not securely fitted - no risk of failure	A kingpin is damaged, not securely fitted to the vehicle, or not properly connected to the fifth wheel of the towing vehicle, the integrity of the kingpin or kingpin-fifth wheel connection may be compromised but there is no immediate risk of failure.	Green	Requires certification (LT400).
5	TK05	Tow couplings and 5th wheel	A fifth wheel or kingpin skid plate statement of compliance unsatisfactory	A fifth wheel or kingpin skid plate does not have a statement of compliance, or the statement is invalid, illegible, incomplete, incorrect, or certification is not recorded on the CoL.	Green	There is >12mm of movement between the upper and lower assemblies; there are cracks through >20% of original welds or parent metal. Requires certification (LT400).
5	TR02	Tow couplings and 5th wheel	Drawbar damaged/not securely fitted - immediate risk of failure	A drawbar is damaged or not securely fitted to the vehicle, the integrity of the drawbar is significantly compromised and there is an immediate risk of failure.	Pink	For example, there is significant damage such as cracks, deformation or corrosion of the drawbar, or excessive wear of the towing eye. Requires certification (LT400).
5	TR03	Tow couplings and 5th wheel	Drawbar damaged/not securely fitted - no immediate risk of failure	A drawbar is damaged or not securely fitted to the vehicle, the integrity of the drawbar may be compromised but there is no immediate risk of failure.	Green	For example, there is significant damage such as cracks, deformation or corrosion of the drawbar, or excessive wear of the towing eye. Requires certification (LT400).
5	TR06	Tow couplings and 5th wheel	Drawbar certificate unsatisfactory -	The certificate of a drawbar is expired, invalid, illegible, incomplete, incorrect, or certification is not recorded on the CoL, and the vehicle is laden.	Green	Refer to the VIRM: In-service certification (WoF and CoF) for drawbar certification requirements. May be QG if unladen. Requires certification (LT400).
5	TR08	Tow couplings and 5th wheel	Draw bar deformed	Draw bar deformed, dented, bent, crushed or damaged.	Pink	For bending the tolerance is 5mm/M. for deformed, dented or crushed the tolerance is 6mm (material thickness). Requires certification (LT400).
5	TR09	Tow couplings and 5th wheel	Retractable or telescopic draw bar locking pin and end stop missing	Retractable or telescopic draw bar locking pin missing from pole drop pin and end stop missing.	Pink	Requires certification (LT400).
5	TR10	Tow couplings and 5th wheel	Retractable or telescopic draw bar end stop missing	Retractable or telescopic draw bar end stop missing but locking pin fitted to pole drop pin.	Green	Requires certification (LT400).
5	TR11	Tow couplings and 5th wheel	Retractable draw bar locking pin or retaining device missing	Retractable draw bar locking pin or retaining device missing from pole drop pin and end stop in place.	Green	Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
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PSV ONLY TOW COUPLINGS LEVEL 5

5	TM02	PSV only tow couplings	A tow bar is not certified for compliance with NZS5467 - towing	A tow bar is not certified for compliance with NZS5467 and the vehicle is towing.	Pink	Applies to vehicles that entered service on or after 1 September 1999 or vehicles that had the tow bar fitted on or after 1 September 1999. Requires certification (LT400).
5	TM03	PSV only tow couplings	A tow bar is not certified for compliance with NZS5467 - not towing	A tow bar is not certified for compliance with NZS5467 but the vehicle is not towing.	Green 2	Requires certification (LT400).
5	TM04	PSV only tow couplings	A tow bar or coupling in a poor/dangerous condition - towing	A tow bar or coupling is in a poor or dangerous condition and the vehicle is towing.	Pink	
5	TM05	PSV only tow couplings	Tow bar in poor condition/loose - not towing	A tow bar is in poor condition or loose but is not being used.	Green	
5	VC02	PSV only tow couplings	Reference is not made on CoL and yet is certified	Reference is not made on CoL and yet is certified.	Green	

LOAD ANCHORAGES LEVEL 5

5	EL02	Load anchorage	Load anchorage system not certified -	A load anchorage system is not certified for compliance with NZS5444 .	Pink	Refer to the VIRM: In-service certification (WoF and CoF) for certification label requirements. May be QP if there is no risk of losing the load. Requires certification (LT400).
5	EL04	Load anchorage	Stock crate retaining system not certified - loaded	A stock crate retaining system manufactured before 01/01/95 is not certified for compliance with section 5 of NZS5413 and the vehicle is loaded.	Pink	Requires certification (LT400).
5	EL05	Load anchorage	Stock crate retaining system not certified - unloaded	A stock crate retaining system manufactured before 01/01/95 is not certified for compliance with section 5 of NZS5413 but the vehicle is not loaded.	Green	Requires certification (LT400).
5	EL06	Load anchorage	Stock crate or monocoque stock trailer not certified	A stock crate or monocoque stock trailer is not certified with compliance with NZS5413.	Pink	Refer to the VIRM: In-service certification (WoF and CoF) for certification label requirements. Requires certification (LT400).
5	EL07	Load anchorage	Load anchorage damaged/not securely fitted - risk of failure, load secured to or by anchorage and includes body supports and outriggers	A load anchorage is damaged or not securely fitted to the vehicle. The integrity of the load anchorage is significantly compromised, there is an immediate risk of failure and a load is secured to or by the anchorage and includes body supports and outriggers.	Pink	For example, there is significant damage such as broken or cracked side or pocket rails, supports, or welds; bent or distorted rails where hooks or fittings attach; or nicked, gouged, worn, twisted, bent or stretched floor rings. Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	EL08	Load anchorage	Load anchorage damaged/not securely fitted - risk of failure, no load secured to or by anchorage	A load anchorage is damaged or not securely fitted to the vehicle. The integrity of the load anchorage is significantly compromised, and there is an immediate risk of failure but a load is not secured to or by the anchorage.	Green 2	Requires certification (LT400).
5	EL09	Load anchorage	Load anchorage damaged/not securely fitted - load secured to or by anchorage	A load anchorage is damaged or not securely fitted to the vehicle. The integrity of the load anchorage may be compromised. A load is secured to or by the anchorage.	Green	There are no alternative anchor points available. Load must be re-secured before continuing. Requires certification (LT400).
5	EL10	Load anchorage	Load anchorage damaged/not securely fitted - no load secured to or by anchorage	A load anchorage is damaged or not securely fitted to the vehicle. The integrity of the load anchorage may be compromised but there is no immediate risk of failure. No load is secured to or by the anchorage.	Green 2	Requires certification (LT400).
5	EL11	Load anchorage	Stock crate door does not stay closed/not securely fitted/damaged/not properly maintained - vehicle loaded	A stock crate door does not stay closed when shut, is not securely fitted to the vehicle, not properly maintained, or damaged. There is significant risk of the door failing in any condition of loading.	Pink	Must be secured before continuing.
5	EL13	Load anchorage	Vehicle not fitted with load anchorage certification label - unloaded	A vehicle fitted with load anchorages is not fitted with a certification label, or the certification label is invalid, illegible, incomplete or incorrect (eg the number of load anchorages does not match the number stated on the certification label).	Green	Load must be re-secured before continuing. Refer to the VIRM: In-service certification (WoF and CoF) for certification label requirements. Requires certification (LT400).
5	EL16	Load Anchorage	Anchorage in use not specified on LA tag	Anchorage not specified on load anchorage tag and in use.	Green 2	Load must be re-secured to certified anchorages before continuing.
5	EL20	Load Anchorage	Bolster locking pins - any missing or out of shape	Any Bolster assembly locking pin missing, damaged, bent or deformed.	Pink	
5	EL22	Load Anchorage	ID tag showing the incorrect number of points	ID tag has the incorrect number of points showing on it.	Green	Requires certification (LT400).
5	EL24	Load Anchorage	Repairs uncertified alternates available	Repairs have been made that are uncertified but the vehicle in unladen or the vehicle is laden but alternative points are available.	Green	Load must be resecured before continuing.
5	EL26	Load Anchorage	A certified rope rail is damaged	Certified rope rails are damaged, detached at any point or cracked.	Pink	May be QP if rail not in use. Requires certification (LT400).
5	EL27	Load anchorage	Logging bolster not certified	A logging bolster fitted on or after 27/11/98 is not certified for compliance with the Bolster Attachment Code of 27/11/98.	Pink	Unless exempted by a notice in The New Zealand Gazette, subject to the use of an additional 6t capacity bolster chain on each bolster. Logging bolsters fitted to new vehicles after 1 October 1999 must be certified to the bolster attachment code. May be QP if unladen. Requires certification (LT400).
5	EL29	Load anchorage	Bolster not securely fitted or attachment is damaged - immediate risk of failure.	A bolster is not securely fitted to the vehicle, or a bolster or bolster attachment is damaged; the integrity of the bolster or bolster attachment is significantly compromised, there is an immediate risk of failure.	Pink	For example, there is significant damage such as cracks, deformation or corrosion, or excessive wear. Requires certification (LT400).
5	EL31	Load anchorage	Bolster not securely fitted or attachment is damaged - no immediate risk of failure, vehicle loaded	A bolster is not securely fitted to the vehicle, or a bolster or bolster attachment is damaged; the integrity of the bolster or bolster attachment may be compromised but there is no immediate risk of failure.	Green	Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
5	EL33	Load anchorage	Sliding bolster – no locking mechanism	A sliding bolster does not have a required locking mechanism or it is not being used and the vehicle is laden.	Pink	Requires certification (LT400).
5	EL35	Load anchorage	Bolster attachments requiring certification do not have certification label or document – no belly chain	A vehicle fitted with bolsters the attachments of which require certification does not have a corresponding certification label or document, or the certification label or document is invalid, illegible, incomplete or incorrect, and there is no belly chain.	Pink	May be QP if belly chain can be fitted before continuing. Requires certification (LT400).
5	EL37	Load anchorage	Load anchorage twist lock is damaged/ not securely fitted or does not lock effectively.	A load anchorage twist lock is damaged, not securely fitted to the vehicle or does lock positively (detents are not engaging positively). The integrity of the load restraint may be compromised and there is a risk of failure.	Pink	May be QP if unladen. Requires certification (LT400).

PSV ONLY LOAD ANCHORAGES LEVEL 5

5	IR01	PSV only load anchorages	No luggage containment facilities – risk of injury by loose items or freight	A vehicle carrying large or heavy items of luggage or freight is not fitted with appropriate containment facilities such as under floor lockers or cargo barriers, and there is a significant risk of occupants being injured by loose items of luggage or freight, eg in the event of an emergency stop or an accident.	Pink	
5	IR02	PSV only load anchorages	No luggage containment facilities – no risk of injury	A vehicle carrying large or heavy items of luggage or freight is not fitted with appropriate containment facilities such as under floor lockers or cargo barriers, but there is no significant risk of injury.	Green 2	
5	IR03	PSV only load anchorages	Roof rack not rated and certified – loaded	A roof rack is not rated and certified by an NZTA approved certifier and roof rack is loaded.	Pink	Requires certification (LT400). Note: This does not include light bars.
5	IR04	PSV only load anchorages	Roof rack not rated and certified – unloaded	A roof rack is not rated and certified by an NZTA approved certifier but roof rack is not loaded.	Green 2	Requires certification (LT400).
5	IR05	PSV only load anchorages	Roof rack insecure – detachment imminent	A roof rack is not securely fitted and detachment is imminent.	Pink	May be QP if unloaded before continuing.
5	IR07	PSV only load anchorages	Roof rack insecure – unlikely to detach	A roof rack is not securely fitted but unlikely to detach.	Green 2	
5	IR08	PSV only load anchorages	Roof rack missing compliance plate or required compliance plate information	A roof rack is not fitted with a compliance plate or a compliance plate that does not contain the required information.	Green	Refer to the VIRM: In-service certification (WoF and CoF) for roof rack compliance plate requirements. Requires certification (LT400).
5	IR09	PSV only load anchorages	Reference to roof rack not on CoL –	A roof rack is fitted and there is no reference to the roof rack on the Certificate of Loading.	Green	Must be unloaded before continuing. Requires certification (LT400).

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
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EQUIPMENT LOCKING DEVICES LEVEL 5

5	EF01	Equipment locking devices	Sliding axle set/chassis/outrigger does not have effective locking device – may be a risk to other road users	A sliding axle set or sliding chassis, or an outrigger fitted to a vehicle does not have an effective locking device by visual inspection and there may be significant risk to other road users.	Pink	
5	EF03	Equipment locking devices	Swivel crane alarm not fitted or does not operate	Class NB and NC vehicles fitted with swivel crane when the lock device is not readily seen does not have an operational audible or visual alarm, or it is not locking when the landing leg is in a fully retracted position.	Pink	
5	EF05	Equipment locking devices	Sliding axle or 5th wheel end stops not fitted or damaged	A sliding axle set or adjustable 5th wheel does not have end-stops (stops never fitted or missing) or they are damaged.	Pink	
5	OL01	Equipment locking devices	A required alarm is not fitted or does not operate	A required locking device alarm is not fitted or does not operate.	Pink	
5	OL03	Equipment locking devices	A required swivel crane or other equipment locking device not compliant Class NB & NC	A required swivel crane or other equipment locking device(s) not fitted, not readily seen, does not have an alarm fitted, or is not locking when the landing leg is not in a fully retracted position (class NB and NC vehicles) or poses a significant risk to other road users (specify the risk in notes).	Pink	

EXTERNAL FITTINGS LEVEL 5

5	EBO2	External fittings	Damaged or deteriorated part – safety risk	A damaged or deteriorated part of the vehicle poses a significant safety risk to other road users.	Pink	
5	EBO3	External fittings	External fitting/damaged or deteriorated part affects driver’s view or control	An external fitting, or a damaged or deteriorated part of the vehicle, adversely affects the driver’s view or control of the vehicle.	Pink	For example, there is significant damage such as broken or cracked side or pocket rails, supports, or welds; bent or distorted rails where hooks or fittings attach; or nicked, gouged, worn, twisted, bent or stretched floor rings.
5	EF09	External fittings	External ornamental fitting protrudes – safety risk	An external ornamental fitting protrudes from the vehicle in a way that poses a significant safety risk to other road users.	Pink	
5	EF10	External fittings	External functional fitting – risk of injury to other road users – can’t be rectified	An external functional fitting is maintained in a way that poses a risk of injury to other road users and this cannot be rectified.	Pink	Examples of functional fittings are bull bars, winches, tow balls and side racks for ladders. QP if rectified/made safe before continuing.

LEVEL	CODE	AREA	SHORT DESCRIPTION	LONG DESCRIPTION	DEFECT CATEGORY	NOTES
PSV ELECTRICAL SYSTEM LEVEL 5						
5	MW01	PSV Electrical System	Electrical system damaged, passengers are carried	A high voltage electrical system is damaged so that there is a risk of shock to occupants.	Pink	
5	MW02	PSV Electrical System	Electrical system damaged, risk of mechanical damage	Any part of the electrical system is not properly fitted or protected so that there is a risk of mechanical damage, or damage from heat, water, oil or fuel.	Pink	
5	MW03	PSV Electrical System	Electrical system damaged, passengers not carried	A high voltage electrical system is damaged but passengers are not carried.	Green	

APPENDIX 1: GUIDELINES FOR HEAVY MOTOR VEHICLE TEMPORARY, ROADSIDE REPAIR

SCOPE

The purpose of this document is to provide guidelines for Police and CVIU officers, the New Zealand Transport Agency (NZTA) inspection staff and mechanics in situations when a disabled heavy motor vehicle (HMV) can not be reasonably or safely repaired at the roadside so that, with some restrictions and after taking appropriate temporary measures, the vehicle can be driven safely to a repair workshop to carry out permanent repairs. The HMV may be directed to a workshop other than the nearest one, if driving to another workshop is safer or more appropriate, considering the condition of the vehicle and the road, geography, traffic and weather conditions.

THESE GUIDELINES MUST NOT BE USED OUTSIDE THE SCOPE SPECIFIED ABOVE.

IF THE HMV CAN NOT BE REPAIRED AT THE ROADSIDE AND CAN NOT BE MADE SAFE WITH TEMPORARY MEASURES, IT MUST BE TOWED!

The mechanic who attends the HMV must carry out the temporary repair and/or take other measures as specified in each situation described in these guidelines and must explain to the driver what conditions have been imposed to enable the disabled vehicle to proceed to the nominated workshop. The mechanic must record the type of failure, the temporary repair measures and the applicable restrictions in the "Record of Temporary Repairs, Measures and Restrictions" (The Record). The Record must also include the place, date and time that the temporary repairs were completed and must specify the workshop, by name and address, that the vehicle is directed to. Both the mechanic and the driver must sign the Record. The driver must keep a copy of it until permanent repairs are completed, and must present it if requested by a police officer or the person acting on behalf of the NZTA.

- The Record is invalid if not signed by both the driver and the mechanic.
- If the driver refuses to sign the Record after a temporary repair has been carried out and drives away, the mechanic must inform the Police without delay, providing all relevant details, that an unsafe motor vehicle is being operated on the road.
- The Record expires after twelve (12) hours from the time when it was issued or upon reaching the repair workshop specified, whichever occurs first and no extension is permitted. For one failure only one temporary measure can be taken and one record issued.

SITUATIONS WHEN THESE GUIDELINES MAY BE APPLIED:

A) PARTIAL BRAKE FAILURE OF HMVS WITH MORE THAN ONE REAR AXLE

This applies only to failures that make one wheel brake of a non-steered axle or both wheel brakes of a rear axle in a rear axle set, inoperable.

Measures to take:

The faulty wheel brake or axle must be isolated (for example by blanking the brake line off, etc).

Restrictions to impose:

The maximum allowed speed is 70km/h on open road and 40km/h on other roads, or 10km/h less than any lower speed limit that is in force on any road where the vehicle is operated.

B) PARTIAL BRAKE FAILURE IN HMV COMBINATIONS

Applies to cases when only one failure occurred making inoperable:

- one wheel brake of an axle, or both wheel brakes of an axle that is in
- either a rear axle group of any HMV in the combination or in the front axle group of a full trailer, where an axle group consists of more than one axle.

Note: The axle group of a semitrailer or simple trailer is a rear axle group.

Measure to take:

The faulty wheel brake or axle must be isolated (see above).

Restriction to impose:

The maximum allowed speed is 70km/h on open road and 40km/h on other roads, or 10km/h less than any lower speed limit that is in force on any road where the vehicle is operated..

C) SECOND PARTIAL BRAKE FAILURE IN HMV COMBINATIONS:

This applies to special cases when a second partial brake failure, as described in point b) above, occurred in a multiple axle HMV combination on the way to a repair workshop since the first Record was issued, providing the two brake failures are not in the same axle group.

If a temporary repair is appropriate the mechanic must issue a second Record for the second brake failure, and the driver must keep both Records.

Measures and restrictions: As in B) above.

D) SUSPENSION FAILURES IN REAR AXLE GROUPS:

This applies only to failures of suspensions and/or hubs of axles fitted to rear axle groups.

Measures to take:

In the case of a failure of a mechanical component of the suspension, the axle must be secured to the chassis in a lifted position.

In the case of a blown air bag, the air supply line to the failed air bag must be blocked off but the axle is not required to be lifted and secured to the chassis.

The vehicle must be off-loaded so that the **unaffected axles**, their suspension and tyres are not overloaded.

For example, if the failed suspension is in a 3-axle group, the load limit must not exceed the 2/3 of the limit for the axle group in the Certificate of Loading (CoL). For 2-axle sets with either twin tyres or single tyres of the same size on both axles, the load limit is half of the load limit that is in the CoL.

However, for 2-axle sets with twin tyred drive axle and single tyred tag axle, if the tag axle suspension fails, the load limit for the drive axle is 2/3 of the axle group limit in the CoL.

The tyre capacity is marked/displayed on the side of the tyre, and the mechanic must ensure that the tyre pressure is appropriate for the load that is placed on the axle. Advice must be sought from tyre repair workshops.

Restrictions:

The maximum allowed speed is 50km/h on open road and 40km/h on other roads, or 10km/h less than any lower speed limit that is in force on any road where the vehicle is operated.

E) WHEEL STUDS:

This applies in cases when a wheel stud has failed.

Note: More than one failed wheel stud is not acceptable, unless the second failure occurs on the way to the repair workshop after a Record has been issued for the initial failure of a wheel stud, providing the two failed wheel studs are not on the same wheel.

Measures to take:

The mechanic must check that all remaining wheel studs are in good condition and the wheel nuts are properly tightened. If the remaining studs are damaged to an extent that the secure attachment of the wheel can not be maintained, the failure must be treated as a suspension failure, and the measures in D) apply.

Restrictions:

The maximum allowed speed is 70km/h unless a lower speed limit is in force on the road where the

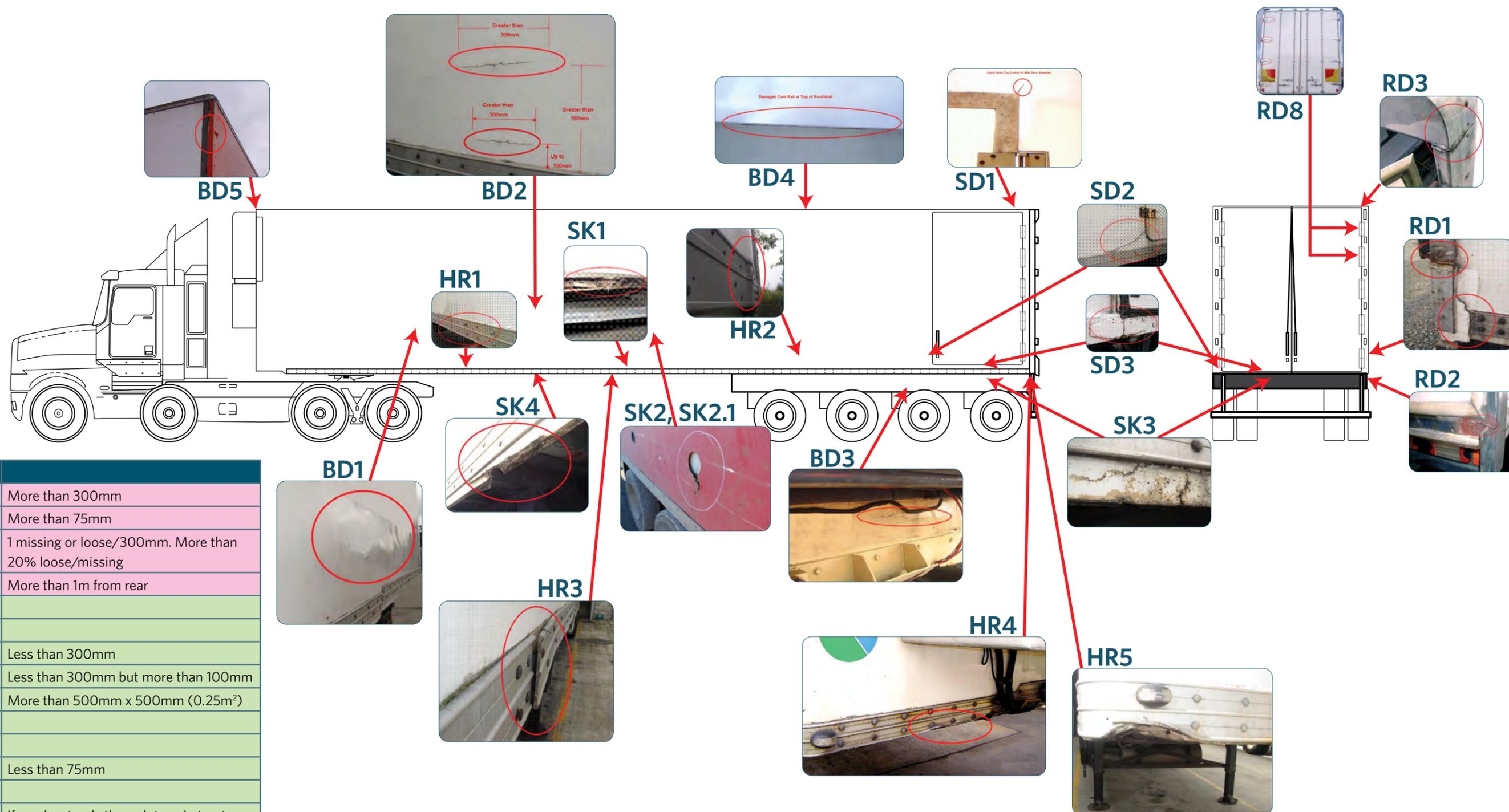
vehicle is operated.

The driver must check at least every 10km or less that the remaining wheel studs are still in good condition and the wheel nuts have not come lose.

IMPORTANT NOTES

- › These guidelines do not deal with general safety requirements imposed by OSH, but they still must be followed.
- › This document, after it has been implemented, may be updated if experience suggests that new scenarios should also be included, or if due to safety concerns further restrictions are necessary or some of the scenarios should be removed.
- › These guidelines may be revoked if experience indicates that they have an adverse effect on road safety.

APPENDIX 2: ASSESSING COMPOSITE MONOCUQUE VEHICLE DEFECTS

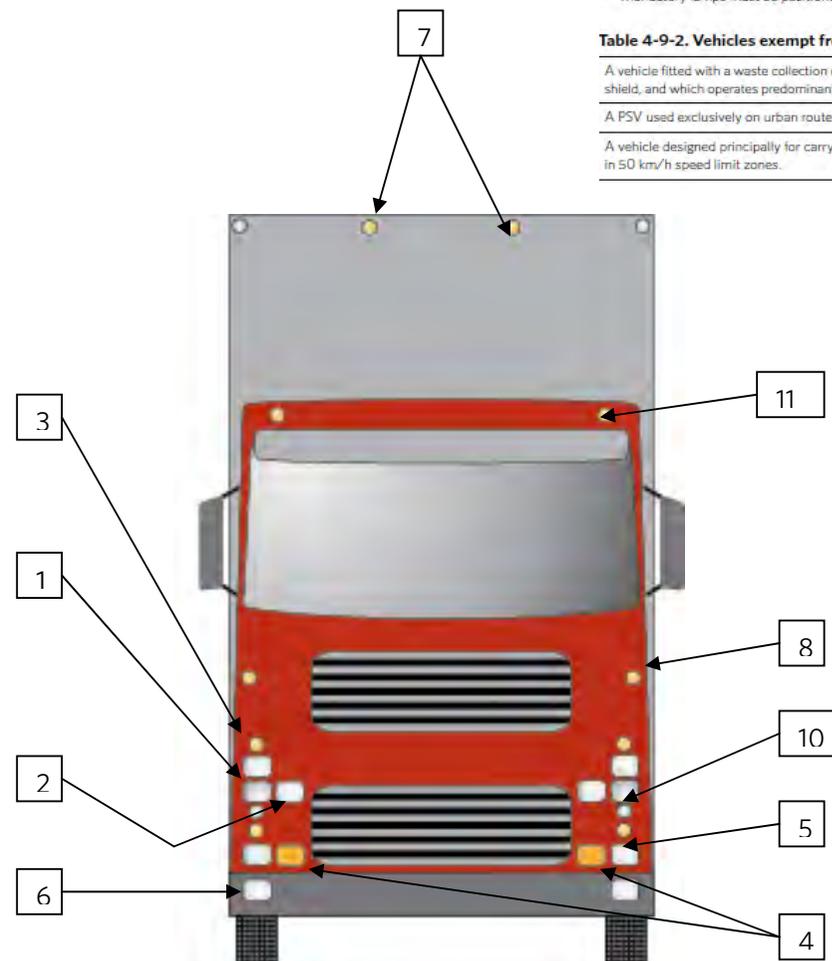


Fault code	Defect	
CC05 - Pink	SK 2.1	More than 300mm
	SD3	More than 75mm
	HR1	1 missing or loose/300mm. More than 20% loose/missing
	HR2	More than 1m from rear
CC06 - Green	BD1	
	BD2	
	SK1	Less than 300mm
	SK2.1	Less than 300mm but more than 100mm
	SK2	More than 500mm x 500mm (0.25m ²)
	SD1	
	SD2	
	SD3	Less than 75mm
	RD1.1	
	RD2	If crack extends through to substructure
	RD3	If crack extends through to substructure
	HR1	Less than 2 loose/missing/300mm. Less than 20% loose/missing
	HR2	Less than 1m from rear
HR3		
CC07 - G2	BD3	
	BD4	
	BD5	
	RD1	

Note HR4, SK3 & SK4 are examples of cosmetic damage which do not constitute structural faults

APPENDIX 3: TRUCK LIGHTS

Defect Area	Fault Code	Description
01	LF01	Required headlamp not fitted, not working effectively or seriously loose
01	LF19	Headlamp fully obscured during darkness
01	LF26	Low beam H/lamp RHS not work during darkness
02	LA10	Additional headlamp emits light other than white/amber
03	LI01	Indicator system does not operate
01	LF03	More than 2 low beam headlamps fitted or operate on low beam
01	LF12	Headlamp emits colour other than white/amber
03	LI03	A required direction indicator lamp is not fitted
03	LI14	A direction indicator light is fully obscured
03	LI19	Indicators works but 2 or more lights don't work
04	LA01	Only 1 or more than 2 fog lamps fitted
05	LO10	A cornering lamp is insecure (will fall off)
06	LA04	Front fog lamp not dipped
07	LO17	A required cab roof lamp is not fitted
01	LF02	Required headlamp not fitted or not working effectively
01	LF11	High beam headlamp operates when low beam selected
01	LF17	Headlamp is damaged affecting output
02	LA02	1 or more than 2 Add High beam H/lamps fitted
02	LA05	Aux H/lamp not working or not properly connected
03	LI08	Frt Indicator other than orange/amber
03	LI20	One indicator light not working
05	LO08	Cornering light emits other than white/amber
07	LO21	Cab roof lamp loose/damaged/obscured
08	LM09	Frt side lamp emit colour other than white/amber (not red)
09	LO01	More than 1 spot lamp fitted
09	LO02	Work lamp emit colour other than white/amber
09	LO03	Work lamp insecure
10	LO15	Day running lamp other than white/amber
10	LO16	Daytime running lamp insecure
11	LO18	Cab roof lamp not operational
11	LO19	Cab roof lamp emits other than white/amber
11	LO20	Cab roof lamp not secure/damaged/obsured
12	LO30	Flashing/revolving lamp fitting incorrect/too many/incorrect colour/insecure



If the vehicle was:	Row	Characteristics of the heavy vehicle	Front		Rear
			Mandatory lamps ^{1,4}	Maximum permitted lamps ²	Maximum permitted lamps ²
Vehicle manufactured before 1/4/2011 ³	A	<ul style="list-style-type: none"> A vehicle with a GVM exceeding 11,300 kg A vehicle with a towing connection where the vehicle combination is likely to have a total length exceeding 9.2 m 	2	12 (No Limit if first registered before 27/2/2005)	6
	B	A vehicle with an overall width of 1.8 m or more (other than a vehicle in row A)	Not required	6	4
Vehicle manufactured from 1/4/2011	C	A vehicle with an overall width exceeding 2.1m and with a GVM or GCM exceeding 12,000kg	2	12	6
	D	A vehicle with an overall width exceeding 2.1m (other than a vehicle in row C)	2	6	4
	E	A vehicle with an overall width of 1.8 m or more (other than a vehicle in row C or D).	Not required	6	4

¹ Vehicles in Table 4-9-2 are not required to be fitted with mandatory lamps.

² Maximum permitted lamps are the maximum number of lamps allowed to be fitted, including mandatory lamps.

³ A vehicle manufactured before 1/4/2011 also has the option of complying with the requirements applicable to vehicles manufactured from 1/4/2011.

⁴ Mandatory lamps must be positioned at a height no lower than the top edge of the windscreen.

Table 4-9-2. Vehicles exempt from mandatory cab roof requirements

A vehicle fitted with a waste collection unit that incorporates front-loading container handling equipment and a cab protection shield, and which operates predominantly within 50 km/h speed limit zones during daylight hours only.

A PSV used exclusively on urban routes.

A vehicle designed principally for carrying ready-mix concrete no more than 9.2 m in length, and which operates predominantly in 50 km/h speed limit zones.

- Note 1** Refer to lighting pages in the Categorisation of Defects document for further details.
- Note 2** Action can be taken when the light is not operating, damaged, and insecure, obscured, has a hole/crack or other damage that allows moisture to enter.
- Note 3** The sanctions are maximums and can be reduced according to conditions and severity.
- Note 4** The following total numbers of position lamps may generally be fitted;
 - One pr forward facing below 1.5m (OE)
 - One pr forward facing at top corners
 - Two cab roof lamps
 - Ten end outline marker lamps fitted elsewhere on the outline of the vehicle or on the cab roof. (For vehicle first registered in NZ before 27 February 2005 there is no restriction on the number of forward facing end outline marker lamps that may be fitted).

APPENDIX 4: TRAILER LIGHTS

If the vehicle was:	Row	Characteristics of the heavy vehicle	Front		Rear
			Mandatory lamps ^{1,4}	Maximum permitted lamps ²	Maximum permitted lamps ²
Vehicle manufactured before 1/4/2011 ³	A	<ul style="list-style-type: none"> A vehicle with a GVM exceeding 11,300 kg A vehicle with a towing connection where the vehicle combination is likely to have a total length exceeding 9.2 m 	2	12 (No Limit if first registered before 27/2/2005)	6
	B	A vehicle with an overall width of 1.8 m or more (other than a vehicle in row A)	Not required	6	4
Vehicle manufactured from 1/4/2011	C	A vehicle with an overall width exceeding 2.1m and with a GVM or GCM exceeding 12,000kg	2	12	6
	D	A vehicle with an overall width exceeding 2.1m (other than a vehicle in row C)	2	6	4
	E	A vehicle with an overall width of 1.8 m or more (other than a vehicle in row C or D).	Not required	6	4

¹ Vehicles in Table 4-9-2 are not required to be fitted with mandatory lamps.

² Maximum permitted lamps are the maximum number of lamps allowed to be fitted, including mandatory lamps.

³ A vehicle manufactured before 1/4/2011 also has the option of complying with the requirements applicable to vehicles manufactured from 1/4/2011.

⁴ Mandatory lamps must be positioned at a height no lower than the top edge of the windscreen.

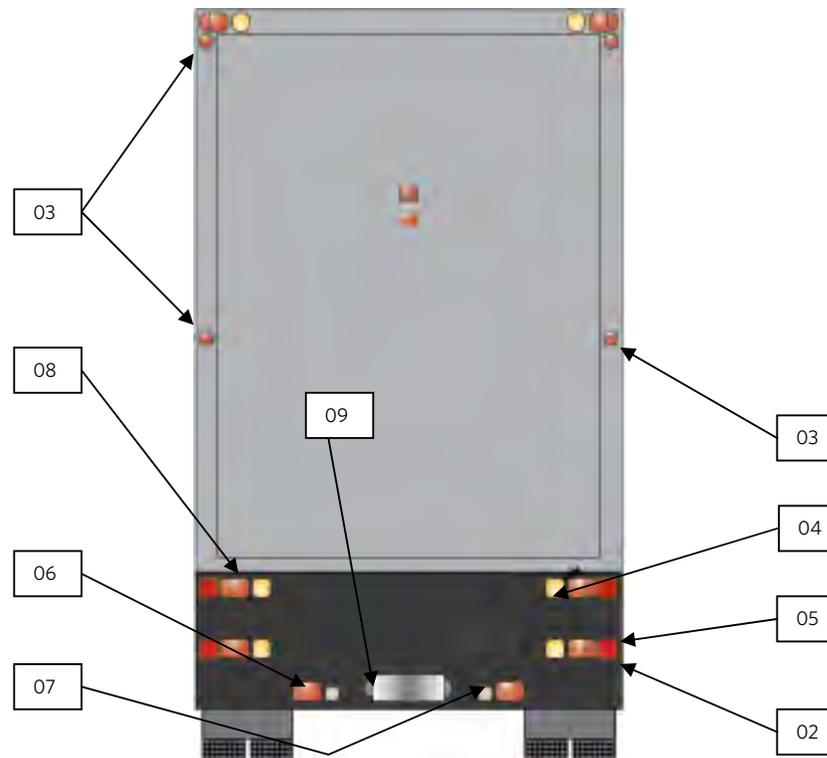
Table 4-9-2. Vehicles exempt from mandatory cab roof requirements

A vehicle fitted with a waste collection unit that incorporates front-loading container handling equipment and a cab protection shield, and which operates predominantly within 50 km/h speed limit zones during daylight hours only.

A PSV used exclusively on urban routes.

A vehicle designed principally for carrying ready-mix concrete no more than 9.2 m in length, and which operates predominantly in 50 km/h speed limit zones.

Defect Area	Fault Code	Description
02	LM02	No RH Rr position lamp working at night & no other Rr RH side lamp working below 2m
03	LM04	More than 1 LH end-outline marker lamp not working at night
03	LM06	Rr position lamp emits colour other than red or is fully obscured at night
03	LO34	Rearmost RH Rr position lamp out at night
04	LR10	RH Rr reflector missing/ineffective at night and vehicle difficult to see
05	LS01	No required stop lamps are fitted
05	LS03	No stop lamps work when service brake applied
05	LS20	All stop lamps not working
06	LA03	Fog lamp to the Rr not red
02	LM03	No RH Rr position lamp fitted/working - daytime
09	LN01	Required registration lamp not fitted
04	LR02	No required Rr reflectors fitted - daytime
05	LS05	All stop lamps operate when service brake NOT applied
07	LB01	More than two reversing lamps fitted
08	LI09	Rr direction indicator lamp not red/amber
08	LI20	One Rr direction indicator lamp not working
09	LN02	Registration Plate lamp not working
09	LN03	Reg. Plate lamp not white/can be seen directly
09	LN04	Reg. Plate lamp damaged/insecure/obscured
03	LO35	LH Rr Position lamp out at night
04	LR01	RH reflector missing/ineffective at night
04	LR04	Rr reflector colour other than red
04	LR05	Rr reflector not securely fitted
04	LR13	LH Rr reflector missing/ineffective at night
05	LS02	Only one of two required stop lamps is fitted/working
05	LS04	Only one stop light operates when service brake applied
05	LS09	A stop lamp emits a colour other than red
05	LS10	A stop lamp is not securely fitted
05	LS12	Stop lamp damaged/obscured, output effected



Note 1 Refer to lighting pages in the Categorisation of Defects document for further details.

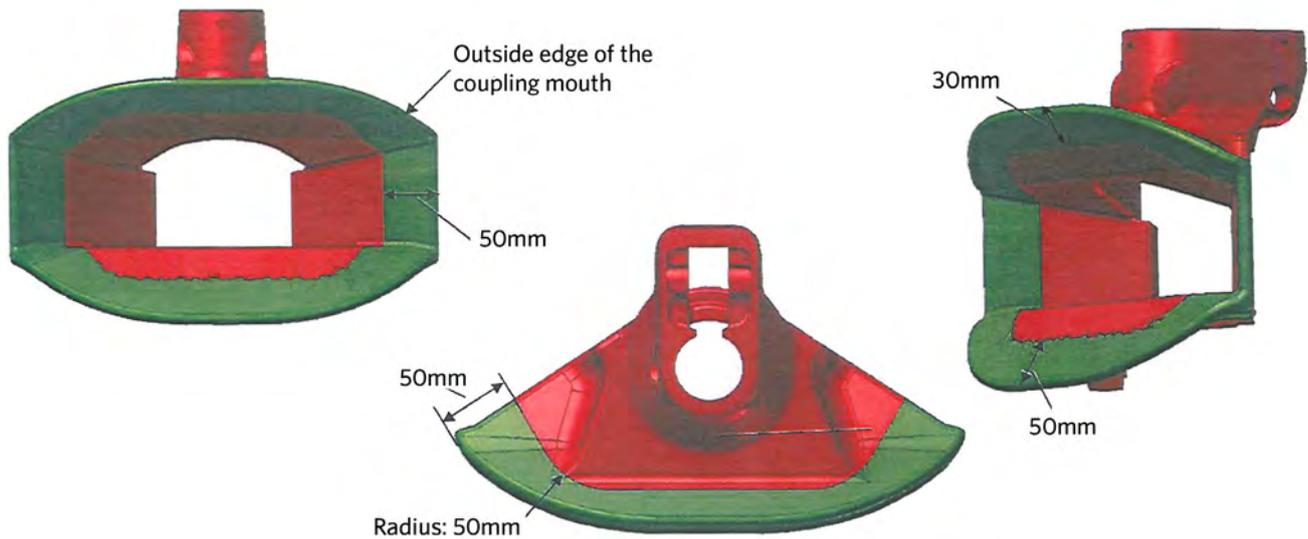
Note 2 Action can be taken when the light is not operating, damaged, and insecure, obscured, has a hole/crack or other damage that allows moisture to enter.

Note 3 The sanctions are maximums and can be reduced according to conditions and severity.

Note 4 The following total numbers of position lamps may generally be fitted;

- Two pr rearward facing, 1 below 1.5m & 1 below 2.1m fitted symmetrically as close as possible to the extremities.
- One pr rearward facing at top corners
- Six end outline marker lamps fitted elsewhere on the outline of the vehicle

APPENDIX 5: DAMAGE LIMITS FOR TOWING CONNECTIONS



Where the body of the towing connection is an integral part or structural component of the towing connection then no damage is allowed. However, where the body is a separate part and not integral to the structure then some damage or repair is allowed in the throat area of the body within the following limits.

AREA WHERE CRACKING/REPAIR WELDING IS ALLOWED

Cracking or repair welding is allowed in the green area as described in the following:

- 30mm from the outer edge of the top of the coupling mouth
- 50mm from the outer edge of the bottom of the coupling mouth
- 50mm from the outer edges of the sides of the coupling mouth, left and right
- A radius of 50mm as shown, must be observed

No damage or welded repair is allowed in the area shown red.

APPENDIX 6: TYRE RATINGS

The following reference material has been inserted to help clarify references made in the defects guide. The material can come from a variety of sources eg Land Transport Rules, Ministry of Transport regulations, technical publications, NZ Police GIs, and is designed to be updated from time to time.

TYRE SPEED RATINGS

Extracts from Land Transport Rule 32013

- 2.2(3) The speed category of a tyre fitted to a motor vehicle must be compatible with the maximum legal speed limit for the vehicle.
- 2.2(4) The complete assembly of tyre, wheel, hub, and axle on a towed vehicle must be compatible with the loading of that vehicle and the maximum legal speed limit for the towing vehicle.

The following table shows the designation that indicates the speed rating of a tyre. The symbols are part of the sidewall marking system of the tyre eg 340/75 x 22 S (S indicates a speed rating of maximum 180km/h).

A1	5km/h
A2	10km/h
A3	15km/h
A4	20km/h
A5	25km/h
A6	30km/h
A7	35km/h
A8	40km/h
B	50km/h
C	60km/h
D	65km/h
E	70km/h
F	80km/h
G	90km/h
J	100km/h
K	110km/h
L	120km/h
M	130km/h
N	140km/h
P	150km/h
Q	160km/h
R	170km/h
S	180km/h
T	190km/h
U	200km/h
H	210km/h
V	240km/h
W	270km/h
Y	300km/h

TYRE LOAD RATINGS

EXTRACTS FROM LAND TRANSPORT RULE 32013

- 2.3(10) The sum of the load ratings of the tyres fitted to an axle of a motor vehicle must be equal to, or greater than, the maximum load that is specified on the certificate of loading for that vehicle, taking into account the speed at which the vehicle is being used.
- 2.3(12) The laden weight on any axle of a motor vehicle must not exceed the sum of loads that are allowed for the tyres fitted to the axle, taking into account the speed at which the vehicle is being used and the pressure to which the tyres are inflated.

The table on the next page shows the load index codes for tyres up to 210km/h. The numerical codes are part of the sidewall marking system of the tyre, eg 180 = a maximum load of 8000kg.

LI	KG	LI	KG	LI	KG	LI	KG	LI	KG	LI	KG	LI	KG
0	45	40	140	80	450	120	1400	160	4500	200	14000	240	45000
1	46.2	41	145	81	462	121	1450	161	4625	201	14500	241	46200
2	47.5	42	150	82	475	122	1500	162	4750	202	15000	242	47000
3	48.7	43	155	83	487	123	1550	163	4875	203	15500	243	48750
4	50	44	160	84	500	124	1600	164	5000	204	16000	244	50000
5	51.5	45	165	85	515	125	1650	165	5150	205	16500	245	51500
6	53	46	170	86	530	126	1700	166	5300	206	17000	246	53000
7	54.5	47	175	87	545	127	1750	167	5450	207	17500	247	54500
8	56	48	180	88	560	128	1800	168	5600	208	18000	248	56000
9	58	49	185	89	580	129	1850	169	5800	209	18500	249	58000
10	60	50	190	90	600	130	1900	170	6000	210	19000	250	60000
11	61.5	51	195	91	615	131	1950	171	6150	211	19500	251	61500
12	63	52	200	92	630	132	2000	172	6300	212	20000	252	63000
13	65	53	206	93	650	133	2060	173	6500	213	20600	253	65000
14	67	54	212	94	670	134	2120	174	6700	214	21200	254	67000
15	69	55	218	95	690	135	2180	175	6900	215	21800	255	69000
16	71	56	224	96	710	136	2240	176	7100	216	22400	256	71000
17	73	57	230	97	730	137	2300	177	7300	217	23000	257	73000
18	75	58	238	98	750	138	2360	178	7500	218	23600	258	75000
19	77.5	59	243	99	775	139	2430	179	7750	219	24300	259	77500
20	80	60	250	100	800	140	2500	180	8000	220	25000	260	80000
21	82.5	61	257	101	825	141	2575	181	8250	221	25750	261	82500
22	85	62	265	102	850	142	2650	182	8500	222	26500	262	85000
23	87.5	63	272	103	875	143	2725	183	8750	223	27250	263	87500
24	90	64	280	104	900	144	2800	184	9000	224	28000	264	90000
25	92.5	65	290	105	925	145	2900	185	9250	225	29000	265	92500
26	95	66	300	106	950	146	3000	186	9500	226	30000	266	95000
27	97.5	67	307	107	975	147	3075	187	9750	227	30750	267	97500
28	100	68	315	108	1000	148	3150	188	10000	228	31500	268	100000
29	103	69	325	109	1030	149	3250	189	10300	229	32500	269	103000
30	106	70	335	110	1060	150	3350	190	10600	230	33500	270	106000
31	109	71	345	111	1090	151	3450	191	10900	231	34500	271	109000
32	112	72	355	112	1120	152	3550	192	11200	232	35000	272	112000
33	115	73	365	113	1150	153	3650	193	11500	233	36500	273	115000
34	118	74	375	114	1180	154	3750	194	11800	234	37500	274	118000
35	121	75	387	115	1215	155	3875	195	12150	235	38750	275	121000
36	125	76	400	116	1250	156	4000	196	12500	236	40000	276	125000
37	128	77	412	117	1285	157	4125	197	12850	237	41250	277	128000
38	132	78	425	118	1320	158	4250	198	13200	238	42500	278	132000
39	136	79	437	119	1360	159	4375	199	13600	239	43750	279	136000

APPENDIX 7: TYRE TREAD PATTERN AND DEPTH

EXTRACTS FROM LAND TRANSPORT RULE 32013

- 2.3(1) Tyres on the same axle must be of the same size designation and construction, and of the same tread pattern type, unless 2.3(2) or 2.6(2) applies.
- 2.3(4) A tyre must be of good quality and construction, fit for its purpose and maintained in a safe condition.
- 2.3(5) A tyre must not have worn, damaged or visible cords apparent by external examination.
- 2.3(13) Except as otherwise provided in this clause, a tyre on a motor vehicle must have a tread pattern, excluding any tie-bar or tread-depth indicator strip, of not less than 1.5mm in depth within all principal grooves contained moulded tread depth indicators and around the entire circumference of the tyre.
- 2.3(17) A motor vehicle of class NA, NB, NC, TC or TD that is fitted with twin tyres must comply with the tread pattern and tread-depth requirements in 2.3(13).

APPENDIX 8: TYRE INFLATION REQUIREMENTS

EXTRACTS FROM LAND TRANSPORT RULE 32013

- 2.4(1) Except if 2.4(3) applies, a tyre fitted to a vehicle must be maintained at a safe inflation pressure that:
- (a) takes into account the recommendation of the manufacturer of the tyre or vehicle, the speed at which the vehicle is being used, and any loading, and
 - (b) if fitted to a heavy motor vehicle, is not greater than the maximum cold inflation pressure for heavy motor vehicle tyres in 2.4(2).
- 2.4(2) The maximum cold inflation pressure for a heavy motor vehicle tyre is:
- (a) for a cross-ply tyre, 700kPa (100PSI)
 - (b) for a radial-ply tyre, 825kPa (120PSI).

APPENDIX 9: FAQs ON TYRES

EXTRACTS FROM LAND TRANSPORT RULE 32013

Q Can an 11.1R20 run on the same axle or as a pair with a 10.00R20?

A Yes, an 11.1R20 can run with a 10.00R20. They are both of the same construction and size.

Q Can an 11/70R22.5 run with a 275/70R22.5?

A Yes, they are both the same construction and size. 11 represents 11 inches which is the same as 275mm.

Q Can a rib lug tread run with a highway tread?



Rib lug pattern



Highway pattern

A Yes, provided they are both the same size, as they are both rib/block tread pattern types.

Q Can those types of tread run on the steer axles?

A Yes, there is no rule preventing any kind of tyre from being fitted to any axle, provided the tyres on that axle match. It is best practice that lug tyres are not fitted to steering axles.



Fig 1



Fig 2



Fig 3



Fig 4

There are many other tread pattern designs – the following pages have some examples from the retread range of Bandag products and the new tyre commercial range from Bridgestone. These are only a small number of designs in service but it gives an idea of what they look like.

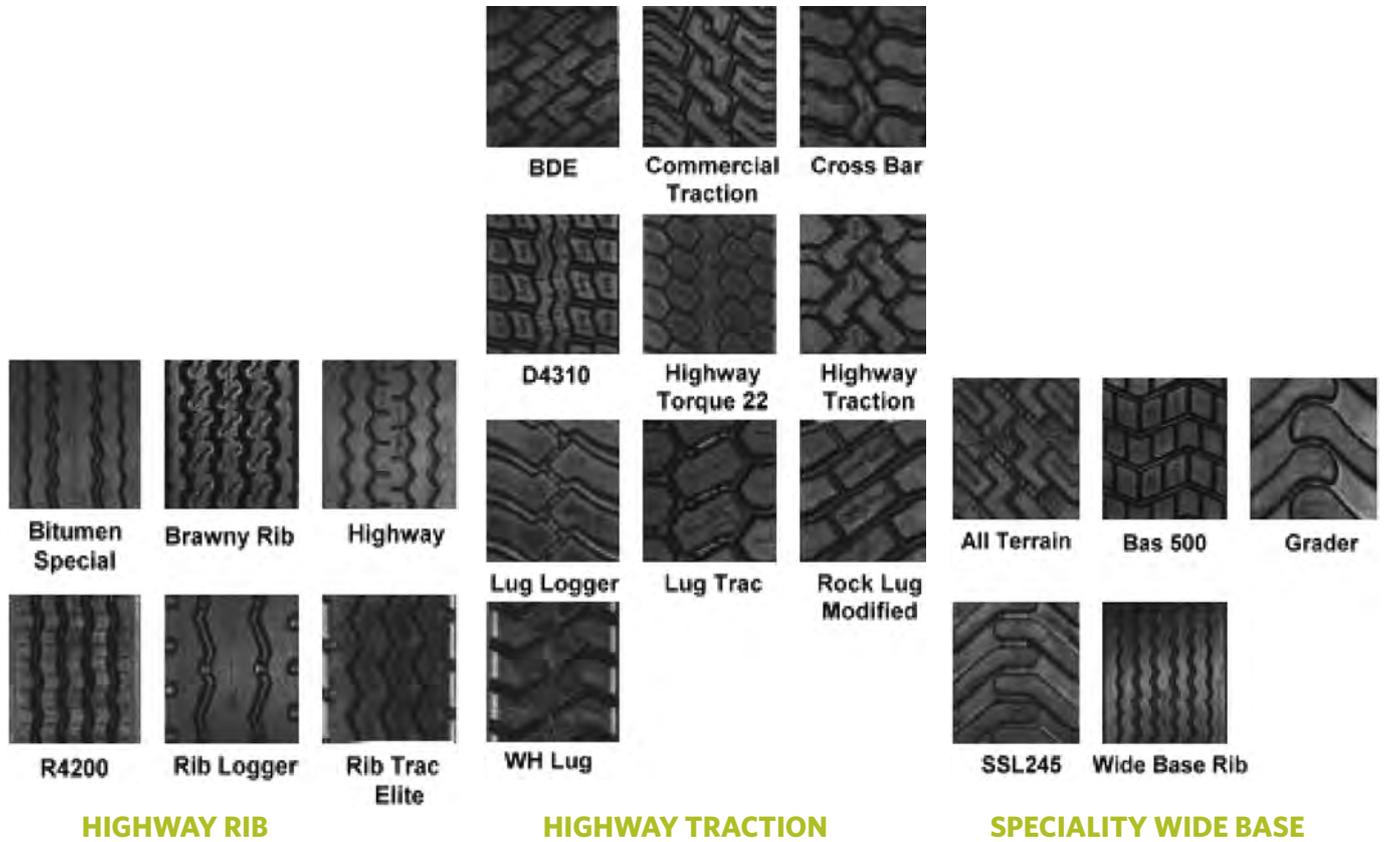
Q Can a pink sticker be issued for a bulge in the side wall of a tyre?

A Yes, a bulge in the side wall indicates damage to the structure of the tyre.

Q Can a vehicle be ordered off the road for different tread depth on duals?

A No, providing they both have more than 1.5mm of tread across 3/4 of the width.

APPENDIX 10: TYRE TYPES





R SERIES (RIB)

Designed for steer and trailer applications giving excellent handling and resistance to irregular wear.



R200



R184



R297



R296



R192



R225

BRIDGESTONE TBR



M SERIES (MIX)
 Designed as all position tyres offering a superb balance of on/off road traction and resistance to cut/chip damage.



BRIDGESTONE TBR

G SERIES (RIB-LUG)
 Designed as all position tyres for mid speed operations



L SERIES (LUG)
 Premium traction tyres offering maximum off road grip and resistance to cut/chip damage.

APPENDIX 11: SUGGESTION FORM

Suggested amendment to the NZ Police - NZ Transport Agency inspection guide

To: Senior Sergeant (CVIU: Standards and Training),

Police National Headquarters,

PO Box 3017, Wellington 6140

Fax: (04) 498 7404

I suggest the following change/s or addition/s should be made to the guide

Page no: _____

Suggested amendment:

Attach copies of the guide pages if necessary

Name: _____ QID: _____

