

Title	Diagnose and rectify oil leaks on transmission and driveline components on light vehicles		
Level	3	Credits	2

Purpose	<p>This unit standard is intended for people in the automotive repair industry who work on light vehicles.</p> <p>People credited with this unit standard are able to diagnose and rectify oil leaks on transmission and driveline components on light vehicles.</p>
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Classification	Motor Industry > Automotive Transmission Systems
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Available grade	Achieved
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, and company requirements and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 2 Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015;
Land Transport Rule: Vehicle Repair 1998;
Land Transport Rule: Vehicle Standards Compliance 2002.
- 3 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 4 Definitions
Company requirements refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.
Light vehicle refers to classes MA, MB, MC, MD, MD1, MD2 and NA as specified in the Vehicle equipment standards classifications at <https://www.nzta.govt.nz/vehicles/vehicle-types/vehicle-classes-and-standards/vehicle-classes/>.
Service information refers to information such as technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

Suitable tools and equipment refer to industry approved tools and equipment that are recognised within the industry as being the most suited to complete the task in a professional and competent manner with due regard to safe working practices.

- 5 For this unit standard, it is essential that the practical assessment evidence is obtained in the workplace under normal workplace conditions.

Outcomes and performance criteria

Outcome 1

Diagnose oil leaks on transmission and driveline components on light vehicles.

Performance criteria

- 1.1 Vehicle is run to operational temperature, and a visual inspection is carried out to identify the leak.
- 1.2 The transmission oil level is checked, and its condition is noted.
- 1.3 Driveline components are checked on the vehicle for wear and damage, and any faults are noted.
- 1.4 The transmission is checked visually to determine the cause of the oil leaks and any obvious faults are identified and noted.

Range may include but is not limited to – damage, worn components, loose components; seal area, plugs, joints, gaskets.

Outcome 2

Rectify oil leaks on transmission and driveline components on light vehicles.

Performance criteria

- 2.1 The transmission is removed, and the oil leak is rectified.
- Range may include but is not limited to – seals replaced, bearings replaced, gaskets replaced, loose components tightened.
- 2.2 Transmission is refitted and tested to ensure no leaks remain.
- 2.3 The driveline is removed from the vehicle, with due care being taken to minimise spillage of oil.
- 2.4 The driveline and joints are disassembled and cleaned, inspected for damage and wear, and repaired.

Range may include but is not limited to – new shaft, bearings, seals.

- 2.5 The joint is assembled. Any faults are rectified to meet manufacturer specifications.
- 2.6 The assembled driveline is installed in the vehicle. All components are checked to ensure that they are securely attached and in compliance with vehicle manufacturer specifications.
- Range may include but is not limited to – shafts, joints, support bearings, engine and transmission mounts, differential and hubs, driveline angle and run-out.
- 2.7 The vehicle is operated, and transmission and driveline operation are checked to ensure no oil leaks, vibration, or excessive noise exists as a result of the repairs.
- 2.8 Tools and equipment are put away in their places and the work area is cleaned.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 February 2008	31 December 2022
Review	2	27 May 2021	N/A

Consent and Moderation Requirements (CMR) reference	0014
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.