

<b>Title</b>	<b>Diagnose and rectify faults in hydraulic transmission drives on plant or machinery</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This unit standard is intended for people in the automotive repair industry.</p> <p>People credited with this unit standard are able to: diagnose faults in hydraulic transmission drives on plant or machinery; and rectify faults in hydraulic transmission drives on plant or machinery.</p>
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<b>Classification</b>	Motor Industry > Automotive Transmission Systems
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 It is recommended that people hold credit for Unit 31277, *Demonstrate knowledge of machine hydrostatic drive systems* before being assessed against this unit standard.
- 2 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.
- 3 Performance of the outcomes of this unit standard must comply with the following: Health and Safety at Work Act 2015.
- 4 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.
- 5 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.  
*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.

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

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## Outcomes and performance criteria

### Outcome 1

Diagnose faults in hydraulic transmission drives on plant or machinery.

#### Performance criteria

- 1.1 The transmission drive type and model are identified from service information.
- 1.2 The transmission drive is tested for faults by inspection and by following the procedure prescribed by the manufacturer, and the results are noted.
- Range includes but is not limited to – oil level, oil condition, oil leaks, damage to hydraulic hoses, hydraulic lines and hydraulic components, operation of the pump(s) and motors, machine movement and operation, oil pressures, flow rates.
- 1.3 The test results are analysed to determine the probable causes of any faults found, and a recommendation is made to rectify the problem(s).

### Outcome 2

Rectify faults in hydraulic transmission drives on plant or machinery.

#### Performance criteria

- 2.1 Hydraulic connections to be opened are cleaned before being opened and the unused openings are plugged.
- 2.2 The faulty unit is dismantled, cleaned and inspected for wear, corrosion, damage, and the presence of foreign material. A decision is made to repair or replace components.
- 2.3 Components unsuitable for repair are replaced.
- 2.4 Repairable components are repaired.
- 2.5 The unit is reassembled and refitted to the system. The system is re-tested for oil leaks and correct operation and the results are recorded.

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<b>Replacement information</b>	This unit standard and unit standard 24319 replaced unit standard 2342.
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<b>Planned review date</b>	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

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.