

Title	Overhaul radial piston diesel fuel injection pumps		
Level	4	Credits	6

Purpose	People credited with this unit standard are able dismantle and reassemble radial piston diesel fuel injection pumps and bench test a radial piston diesel fuel injection pump assembly.
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Classification	Motor Industry > Automotive Fuel Systems and Exhaust
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Available grade	Achieved
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Guidance Information

- 1 It is recommended that people hold credit for 31401, *Demonstrate knowledge of radial piston diesel fuel injection pumps* 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 Legislation, regulations or industry standards relevant to this unit standard include but are not limited to the – current version of the Health and Safety at Work Act 2015; and any subsequent amendments and replacements.
- 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.
Service information may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.
- 5 Types of radial piston pump may include – DPA, DP200, DP210, VP44, Denso V4, Stanadyne.
- 6 For the purposes of this unit standard, evidence of overhauling two different types of radial piston pump is required.

Outcomes and performance criteria

Outcome 1

Dismantle and reassemble radial piston diesel fuel injection pumps.

Performance criteria

- 1.1 Pump assembly is dismantled.
- 1.2 All parts are cleaned to enable an inspection to be carried out.
- 1.3 A condition report is completed.
- Range inspection of parts, identifying and recording faults, recommending repairs and replacement of parts.
- 1.4 Pump is reassembled.

Outcome 2

Bench test a radial piston diesel fuel injection pump assembly.

Performance criteria

- 2.1 Pump assembly is mounted and set up for testing and setting on a test bench.
- 2.2 Pump assembly is tested and calibrated.
- Range pre-stroke, fuel delivery and governing calibration, advance, internal pump pressure, external timing checked and set.
- 2.3 Pump assembly is removed from the test bench with fuel inlets and adjustments sealed.
- 2.4 Pump packaged and stored correctly.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 August 2018	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.