Title	Test fluids used in machinery and equipment for variation from specification		
Level	4	Credits	3

Purpose People credited with this unit standard are able to prepare for testing of fluids used in machinery, test fluids and analyse results.	
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Classification	Mechanical Engineering > Maintenance and Diagnostics in Mechanical Engineering

Available grade	Achieved
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-	Unit 21912, Apply safe working practices on an engineering worksite, or demonstrate equivalent knowledge and skills.
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Guidance Information

Reference
 Health and Safety at Work Act 2015.

2 Definitions

Accepted industry practice – approved codes of practice and standardised procedures accepted by the wider mechanical engineering industry sectors as examples of best practice.

Fluids - water and oil used in machines.

Workplace procedures – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.

3 Assessment information

The use of specialist laboratory testing equipment when testing fluids is not required for assessment against this unit standard.

Outcomes and performance criteria

Outcome 1

Prepare for testing of fluids used in machinery.

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Performance criteria

1.1 Fluid testing requirements are determined, and test equipment relevant to test is prepared.

1.2 Fluid samples and specifications are obtained in accordance with workplace procedures.

Outcome 2

Test fluids and analyse results.

Performance criteria

2.1 Tests are carried out in accordance with workplace procedures.

Range water for pH, solids, and additives; oil for viscosity and contamination.

- 2.2 Test results are interpreted and compared with fluid specification in accordance with workplace procedures.
- 2.3 Fluids not conforming to fluid specification are identified and reported for rectification in accordance with workplace procedures.
- 2.4 Test results are recorded in accordance with workplace procedures.

Planned review date	31 December 2022

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 October 1994	31 December 2011
Revision	2	14 April 1997	31 December 2011
Revision	3	5 January 1999	31 December 2011
Revision	4	18 September 2001	31 December 2011
Rollover and Revision	5	25 July 2006	31 December 2011
Rollover	6	20 June 2008	31 December 2014
Review	7	15 April 2011	31 December 2022
Review	8	17 August 2017	N/A

Consent and Moderation Requirements (CMR) reference	0013
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This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

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Comments on this unit standard

Please contact Competenz <u>qualifications@competenz.org.nz</u> if you wish to suggest changes to the content of this unit standard.

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