



NATA ACCREDITED LABORATORY

National Association of Testing Authorities, Australia

(ABN 59 004 379 748)

has accredited

Australian Laboratory Services Pty Ltd Sydney Tribology Laboratory

following demonstration of its technical competence to operate in accordance with

ISO/IEC 17025

This facility is accredited for the tests shown on the *Scope of Accreditation* issued by NATA

Jennifer Evans

Chief Executive Officer

Date of issue: 28 May 2021

Date of accreditation: 10 March 1986

Accreditation number: 825

Site number: 2024



National Association of Testing Authorities, Australia

SCOPE OF ACCREDITATION

Australian Laboratory Services Pty Ltd

SYDNEY TRIBOLOGY LABORATORY

| Accreditation Number: 825 | Site Number: 2024 |

Date of Accreditation: 10/03/1986

Address Details:

Unit 2, 171-175 Newton Road
Wetherill Park, NSW 2164
AUSTRALIA

Website: www.alsglobal.com

Contact Details:

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Availability: Services available to external clients

Note: Not all of the columns of the scope of accreditation displayed include data.

The only data displayed is that deemed relevant and necessary for the clear description of the activities and services covered by the scope of accreditation.

Grey text appearing in a SoA is additional freetext providing further refinement or information on the data in the preceding line entry.

ISO/IEC 17025 (2017)

Materials

SERVICE	PRODUCT	DETERMINANT	TECHNIQUE	PROCEDURE	LIMITATION/RANGE
Analysis of biofuels, hydrocarbon fuels and related fuel products	Diesel	Cold filter plugging point	Not applicable	ASTM D6371	
	Liquid petroleum (LP)	Ash	Pyrolysis	ASTM/IP D482/4	
		Viscosity - Kinematic	Calculation	ASTM D341	
		Pour point	Not applicable	ASTM/IP D97/15	
		Copper corrosion	Copper strip	ASTM/IP D130/154	
		Acid number	Potentiometric	ASTM/IP D664/177	
		Cloud point	Not applicable	ASTM/IP D2500/219	
		Distillation	Not applicable	ASTM D86	
		Water	Karl-Fischer	ASTM D6304	



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			titration		
		Aniline point; Mixed aniline point;	Classical	ASTM/IP D611/2	
		Water	Distillation	ASTM/IP D95/74	
	Distillate fuels	Cetane index	Calculation	ASTM/IP D4737/380 ASTM D976	
		Free water; Particulate matter;	Visual examination	ASTM D4176	
	Distillate fuels; Fuel oil;	Sediment; Water;	Centrifugation	ASTM D1796, D2709	
	Liquid fuels	Viscosity - Kinematic	Calculation	ASTM/IP D445/71	
		Fire point; Flash point;	Cleveland open cup	ASTM/IP D92/36	
		Petroleum measurement classification	Not applicable	ASTM/IP D1250/200	
		Saponification value	Titration	ASTM/IP D94/136	
		Carbon residue	Micro method	ASTM D4530	
		Flash point	Small scale closed cup	ASTM/IP D3828/303	
		Density; Relative density (specific gravity);	Density meter	ASTM D4052	
		Flash point	Pensky- Martens closed cup	ASTM/IP D93/34	
		Acid number; Base number;	Titration	ASTM/IP D974/139	
		Colour	ASTM colour scale	ASTM/IP D1500/196	
		Acid number	Potentiometric	In-house WC/PE 975	
	Aviation fuels	Freezing point	Not applicable	ASTM D2386	
		Fuel system icing inhibitors	Refractometry	ASTM D5006	
		Water reaction	Separation	ASTM D1094	
	Crude petroleum;	Asphaltenes - Heptane	Extraction	ASTM/IP D6560/143	



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	Liquid petroleum (LP);	insoluble			
		American petroleum institute (API) gravity; Density; Relative density (specific gravity); Specific gravity;	Hydrometer	ASTM/IP D1298/160	
Analysis of bituminous materials - Composition	Bituminous materials	Water content	Water distillation	ASTM/IP D95/74	
Analysis of lubricants, oils and related products	Hydraulic fluids; Lubricant additives; Lubricating oils;	Base number of petroleum products	Potentiometric perchloric acid titration	ASTM/IP D2896/276	
	Lubricating oils	Extreme pressure properties	Four ball method	ASTM D2783	
		Diagnosis of wear from additive elements, wear metals and contaminants	ICP-AES	ASTM D5185	
		Demulsibility characteristics	Steam	IP 19	
		Oxidation stability	Rotating pressure vessel oxidation test (RPVOT)	ASTM D2272	
		Wear preventive characteristics	Four ball method	ASTM D4172	
		Hindered aromatic amine antioxidant content; Hindered phenolic antioxidant content;	Linear sweep voltammetry	ASTM D6971	
		Density; Relative density (specific gravity);	Density meter	ASTM D4052	
		Pentane	Membrane	ASTM D4055	



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		insolubles	filtration		
		Water separation characteristics	Graduated cylinder	ASTM D1401	
		Foaming characteristics	Tendency and stability	ASTM D892/146	
		Insolubles	Centrifugation	ASTM D893	
	Lubricant additives; Lubricating oils;	Ash - Sulfated	Not applicable	ASTM D874/163	
		Water content	Karl-Fischer titration	ASTM D6304	
	Base oils	Aluminium; Barium; Calcium; Chromium; Copper; Iron; Lead; Magnesium; Manganese; Molybdenum; Nickel; Phosphorus; Potassium; Silicon; Sodium; Tin; Titanium; Vanadium; Zinc;	ICP-AES	ASTM D5185	
	Base oils; Lubricating oils;	Aluminium; Antimony; Barium; Cadmium; Calcium; Chromium; Copper; Iron; Lead; Lithium; Magnesium; Manganese; Molybdenum; Nickel; Phosphorus; Potassium; Silicon; Sodium; Tin; Titanium; Vanadium; Zinc;	ICP-AES	in-house WC/38	
		Retained solids	Classical	In-house PE100	
	Mineral oils	Rust preventing characteristics	Steel rod test	ASTM D665/135	
	Electrical insulating oils and	Contamination - Particulates	Gravimetric	ISO 4406	



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	compounds; Hydraulic fluids;				
	Electrical insulating oils and compounds; Hydraulic fluids; Lubricating oils;	Hindered phenolic antioxidant content	Linear sweep voltammetry	ASTM D6810	
		Viscosity - Kinematic	Calculation	ASTM/IP D2270/226	
	Electrical insulating oils and compounds; Hydraulic fluids; Mineral oils;	Particle count	Automatic particle counter	ASTM D6786	
	Electrical insulating oils and compounds; Greases; Hydraulic fluids; Lubricating oils;	Anti-wear properties; Extreme pressure properties;	Four ball method	IP 239	
	Greases	Dropping point	Drop test	ASTM D2265	
		Extreme pressure properties	Four ball method	ASTM D2596	
		Wear preventive characteristics	Four ball method	ASTM D2266	
		Cone penetration	Quarter and half scale cone	ASTM/IP D1403/310	
	Greases; Lubricating oils;	Cone penetration	Visual examination	ASTM D217/50	
	Greases; Lubricant additives;	Dropping point	Not applicable	ASTM D566/132	
Analysis of solvents	Solvents	Aniline point; Mixed aniline point;	Classical	ASTM/IP D611/2	
	Hydrocarbon solvents				

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