

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>Accredited to ISO/IEC 17025:2017</p>	Jet-Care International Inc Issue No: 036 Issue date: 31 October 2023	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
COOLANTS Engine Coolants (monitoring to determine fitness for purpose)	<u>Chemical and Physical Tests</u> Anions: Chloride, Nitrate, Nitrite, Phosphate Sulphate Determination of Coolant Properties – by Refractive Index with calculation of freeze point, %ethylene glycol and boiling point	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Jetcare corporate procedure CP-001 (Management of Change) Documented In-House Methods M054 based on ASTM D5827 by Ion Chromatography M052 based on ASTM D3321



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PETROLEUM and PETROLEUM PRODUCTS, OILS and LUBRICANTS	<u>Chemical and Physical Tests</u>	Documented In-House Methods
Oils	Blotter Spot Test	ASTM D7899 (modified)
	Colour	M009 based on ASTM D6045 Automatic Tristimulus method with conversion to ASTM D1500
	Crackle test	M026
	Density and Specific Gravity	M011 based on ASTM D5002
	Elemental analysis: Ag, Al, B, Ba, Be, Ca, Cd, Cl, Cr, Cu, Fe, Li, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Si, Sn, Ti, V, W, Zn	M019 based on ASTM D5185 by ICP
	Elemental Analysis: Ag, Al, B, Ba, Ca, Cr, Cu, Fe, Mg, Mn, Mo, Ni, P, K, Na, Pb, S, Si, Sn, Ti, V, Zn.	ASTM D5185 by ICP AES
PETROLEUM and PETROLEUM PRODUCTS, ADDITIVES, OILS and LUBRICANTS	Evaporation loss of Lubricating oils by Noack Method	ASTM D5800



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PETROLEUM and PETROLEUM PRODUCTS, OILS and LUBRICANTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Jetcare corporate procedure CP-001 (Management of Change) Documented In-House Methods (cont'd)
Oils (cont'd)	Elemental Analysis: Ba, B, Ca, Cu, Mg, Mo, P, S, Zn.	ASTM D4951 by ICP AES
	Ferromagnetic particles	ASTM D8184 by Particle Quantifier
	Flash Point (Cleveland Cup)	M020 based on ASTM D92
	Flash point Go-no-go	M001 Closed cup based on ASTM D7094 and ASTM D93A (mode) Eralytics Automatic Flash Point tester
	Fuel Dilution	M037 by GC based on ASTM D3524
	General filter debris	M032
	Initial pH (IpH)	M016 by IpH meter
	Insoluble material	M010 by membrane filtration
	Measurement of Antioxidant Content	M039 based on ASTM D6971 by RULER
	Metallic debris	M022
	Oxidation, Nitration, Soot, etc	M017 using FTIR
	Particle (alloy type)	M013 by Scanning Electron Microscope
	Size and Number of Particles	M033 based on NAS 1638, ISO4406, SAE4059
	Total Acid Number	M007 based on ASTM D664
	Total Base Number	M006 based on ASTM D2896
	Total Base Number	ASTM D2896 by titration
	Total Base Number (0.1 to 250mg KOH/g)	ASTM D4739-17 by titration



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PETROLEUM and PETROLEUM PRODUCTS, OILS and LUBRICANTS (cont'd)	<u>Chemical and Physical Tests</u> (cont'd)	Flexible scope enabling new versions of existing accredited standard test methods to be introduced in accordance with documented Jetcare corporate procedure CP-001 (Management of Change) Documented In-House Methods (cont'd)
Oils (cont'd)	Viscosity	M002 based on ASTM D445
	Viscosity	ASTM D445
	Viscosity Index calculated from Viscosity at 40°C and 100°C	ASTM D2270-10 (2016) by calculation
	Viscosity between -10°C and -35°C	ASTM D5293 using Cold Cranking simulator
	Viscosity at 150°C	ASTM D4683 by Tapered Bearing Simulator Viscometer
	Viscosity at 100°C	ASTM D6616 High Shear Rate by Tapered Bearing Simulator Viscometer
	Low Temperature Viscosity	ASTM D2983 by Rotational Viscometer (Brookfield Viscosity)
	Nitrogen	ASTM D5291 by Instrumental Analyser
	Nitrogen	ASTM D5762 by Boat-Inlet Chemiluminescence
	Trace Nitrogen	ASTM D4629 by Syringe/Inlet Oxidative Combustion and Chemiluminescence Detection
	Sulfur	ASTM D2622 by Wavelength Dispersive X-ray Fluorescence Spectrometry
	Sulphated Ash	ASTM D874 using microwave muffle furnace
	Water content	M023 based on ASTM D6304



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TRANSFORMER OILS	Dielectric Breakdown Voltage	Documented In-House Methods M051 based on ASTM D1816 and ASTM D877
END		