

10.6 Scope of Accreditation

Issue No: 03/ Issue Date: 07-04-2021
File Manager: M.Alsowailam



ACCREDITED
TESTING
ISO/IEC 17025:2017
No. ATL 0022

Testing Laboratory Accreditation No. ATL 0022

is accredited by the GCC Accreditation Center (GAC) in accordance with the recognised International Standard ISO/IEC 17025:2017, "General requirements for the competence of testing and calibration laboratories"

Tribocare FZC	
<p>Address: 400 M2 Warehouse A2-074, PO Box 122405, Sharjah, UAE</p>	<p>Contact Person: Mr. Sreenivasa Rao Gunda/ Mr. Anand Tel: +97165528799 Fax: +971558450995 Email: sreenivas@tribocare.com, anand@tribocare.com, info@tribocare.com Web Address: www.Tribocare.com</p>

Locations where testing activities covered by the above Accreditation Standard are undertaken

1- address: **Tribocare FZC**, 400 M2 Warehouse A2-074, PO Box 122405, Sharjah, UAE

For the following scope:

Scope:

Version: 3.6

Date: 24th July 2019

Approved by: Brahim Houla

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7. Chemical Testing

7.16 Fuels

7.16.02 - Liquid Fuels

7.17 Lubricants

7.17.01 Oils and Greases

Scope details are as follows:

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Remarks
Chemical Testing	Distillate Marine Fuel	Lubricity	ISO 12156-1:2018 Method A/ASTM D6079 -18	
		Kinematic Viscosity @40°C / 0.7 mm ² /s to 3000 mm ² /s	ISO 3104:2020/ASTM D 445-19a	
		Density@15°C /600 Kg/m ³ to 1100 Kg/m ³	ISO 12185:1996/ASTM D 4052 -18a	

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		Cetane Index /32.5 to 56.5	ISO 4264:2018/ASTM D 4737-10(Reapproved 2016)	
		Sulfur /0.03% to 5.00 %	ISO 8754:2003 / ASTM D 4294 – 16e1	
		Flash Point / 40 °C to 370°C	ISO 2719:2016 Pr. B / ASTM D 93-20 Pr. A	
		Acid Number / 0.1 mg/g KOH to 150 mg/g KOH	ASTM D 664:18e2	
		Total Sediment by Hot Filtration /0.01 to 0.40 mass %	ISO 10307-1:2009/ASTM D 4870 -18	
		Oxidation Stability, 15 to 30 g/m³	ISO 12205:1995	
		Carbon Residue micro method on the 10% volume distillate residue / 0.10 mass % to 30.0 mass %	ISO 10370:2014 / ASTM D 4530 - 15(2020)	
		Carbon Residue micro method/0.10% mass to 30.0 mass%	ISO 10370:2014 / ASTM D 4530 - 15(2020)	
		Pour Point / 45°C to - 42°C	ISO 3016:2019/ ASTM D 97 -17b	
		Appearance	ISO 8217:2017 Clause 6.12	
		Water/ 0.05 vol % to 25 vol %	ISO 3733:1999 / ASTM D 95 -	

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			13(Reapproved 2018)	
		Ash/0.001 mass % to 0.180 mass %	ISO 6245:2001 / ASTM D 482 - 19	
		Distillation/Boiling temperature max 400°C	ASTM D 86 -20	
Chemical Testing	Residual Marine Fuel	Kinematic Viscosity @50°C / 0.7 mm ² /s to 3000 mm ² /s	ISO 3104:2020/ASTM D 445 -19a	
		Density@15°C /600 Kg/m ³ to 1100 Kg/m ³	ISO 12185:1996/ASTM D 4052 -18a	
		CCAI	ISO 8217:2017(E) Sec 6.2	
		Sulfur /0.03% to 5.00 %	ISO 8754:2003 / ASTM D 4294 -16e1	
		Flash Point / 40 °C to 370°C	ISO 2719:2016 Pr. B / ASTM D 93-18 Pr. B	
		Acid Number/0.1 mg/g KOH to 150 mg/g KOH/g	ASTM D 664:18e2	
		Total Sediment Aged/0.01 to 0.50 mass %	ISO 10307-2: 2009/ ASTM D 4870-18 Pr. A, Pr. B	
		Carbon Residue micro method/0.10	ISO 10370:2014 / ASTM D 4530 -15(2020)	

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		mass % to 30.0 mass %		
		Pour Point /45°C to - 42°C	ISO 3016:2019/ ASTM D 97 -17b	
		Water/0.05 vol % to 25 vol %	ISO 3733:1999 / ASTM D 95 - 13(Reapproved 2018)	
		Ash/0.001 mass % to 0.180 mass %	ISO 6245:2001 / ASTM D 482 – 19	
		Vanadium / 1 mg/Kg to 400 mg/Kg	IP 501:05	
		Sodium/1 mg/Kg to 100 mg/Kg	IP 501:05	
		Aluminium/ 5 mg/Kg to 150 mg/Kg	IP 501:05	
		Silicon/10 mg/Kg to 250 mg/Kg	IP 501:05	
		Calcium/3 mg/Kg to 100mg/Kg	IP 501:05	
		Zinc/1 mg/Kg to 70 mg/Kg	IP 501:05	
		Phosphorus / 1 mg/Kg to 60 mg/Kg	IP 501:05	
		Iron / 2 mg/Kg to 60 mg/Kg	IP 501:05	
Chemical Testing	Lubricating oil	Kinematic Viscosity @40°C 0.7 mm ² /s to 3000 mm ² /s	ASTM D 445 -19a	
		Kinematic Viscosity @100°C /0.7	ASTM D 445 -19a	

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		mm ² /s to 3000 mm ² /s		
		Acid Number, Method A / 0.1 mg/g KOH to 150 mg/g KOH	ASTM D 664:18e2	
		Base Number, Procedure B / 0.5 to 300 mg KOH/g max	ASTM D 2896 -15	
		Water, Procedure A and B / 10 mg/Kg to 25000 mg/Kg	ASTM D 6304 -16E1 Procedure B	
		Flash Point / 79°C to <400°C	ASTM D 92 -18	
		Flash/No Flash, Method A / 45 °C to 300 °C	ASTM D 3828 -16a	
		Flash Point, Method B / 45 °C to 300 °C	ASTM D 3828 -16a	
		Apparent Viscosity / 900 mPa.s to 25 000 mPa.s	ASTM D 5293 -20	
		Copper Corrosion / 1a to 4 c	ASTM D 130 -19	
		Density / 600 Kg/m ³ to 1100 Kg/m ³	ASTM D 4052 -18a	
		Foaming Characteristics Seq. I, II, III /	ASTM D 892 -18	

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		0 ml minimum		
		Homogeneity and Miscibility	ASTM D 6922 -13(2018)	
		Carbon Residue micro method/0.10 mass % to 30.0 mass %	ASTM D 4530 -15(2020)	
		Pentane Insoluble / 0 mass % to 10.0 mass %	ASTM D 893 -14(Reapproved 2018)	
		Toluene Insoluble / 0 mass % to 10.0 mass %	ASTM D 893 -14(Reapproved 2018)	
		Pour Point / 45°C to - 42°C	ASTM D 97 -17b	
		Yield Stress and Apparent Viscosity at low temperature (MRV) / <35 Pa to 210 Pa yield stress; 4300 mPa.s to 270000 mPa.s Apparent Viscosity	ASTM D 4684 – 20a Procedure A	
		Viscosity Index / 79 to 164	ASTM D 2270-10(2016)	
		Sulphated Ash / 0.005 mass % minimum	ASTM D 874 -13a(Reapproved 2018)	
		Sulphur / 17 mg/Kg to 4.6 mass %	ASTM D 4294 -16 e1	

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	Water Content / 0.05 vol % to 25 vol %	ASTM D 95 -13(Reapproved 2018)	
	Water Separability / <3 ml to 80 ml	ASTM D 1401 -18b	
	Colour / 0.5 to 8.0	ASTM D 1500 – 12(Reapproved 2017)	
	Particulate Contamination / 0 to >28	ISO 4406:2018	
	Aluminium / 1 mg/Kg to 40 mg/Kg	ASTM D 5185 -18	
	Barium/1 mg/Kg to 40 mg/Kg	ASTM D 5185 -18	
	Boron/1 mg/Kg to 30 mg/Kg	ASTM D 5185 -18	
	Calcium/1 mg/Kg to 9000 mg/Kg	ASTM D 5185 -18	
	Chromium/1 mg/Kg to 40 mg/Kg	ASTM D 5185 -18	
	Copper/1 mg/Kg to 160 mg/Kg	ASTM D 5185 -18	
	Iron/1 mg/Kg to 140 mg/Kg	ASTM D 5185 -18	
	Lead/1 mg/Kg to 160 mg/Kg	ASTM D 5185 -18	
	Magnesium/1 mg/Kg to 1700 mg/Kg	ASTM D 5185 -18	
	Manganese/1 mg/Kg to 700 mg/Kg	ASTM D 5185 -18	

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	Molybdenum/1 mg/Kg to 200 mg/Kg	ASTM D 5185 -18	
	Nickel/1 mg/Kg to 40 mg/Kg	ASTM D 5185 -18	
	Phosphorus/1 mg/Kg to 1000 mg/Kg	ASTM D 5185 -18	
	Potassium/1 mg/Kg to 1200 mg/Kg	ASTM D 5185 -18	
	Silicon/1 mg/Kg to 50 mg/Kg	ASTM D 5185 -18	
	Silver/1 mg/Kg to 50 mg/Kg	ASTM D 5185 -18	
	Sodium/1 mg/Kg to 70 mg/Kg	ASTM D 5185 -18	
	Tin/1 mg/Kg to 40 mg/Kg	ASTM D 5185 -18	
	Titanium/1 mg/Kg to 40 mg/Kg	ASTM D 5185 -18	
	Vanadium/1 mg/Kg to 50 mg/Kg	ASTM D 5185 -18	
	Zinc/1 mg/Kg to 1600 mg/Kg	ASTM D 5185 -18	
	High Shear rate and high temperature viscosity	ASTM D 4683-20	
	High temperature foaming characteristics	ASTM D 6082 -12(Reapproved 2017)	

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		Low-temperature Viscosity; 300 mPa.s to 900000 mPa.s	ASTM D2983 – 20 Method B	
		Particulate contamination	ISO 4407:2002	
		Shear stability	ASTM D 6278- 20a	
		Evaporation Loss of Lubricating Oils by the Noack Method	ASTM D5800-20 Procedure B	
		Gelation Index	ASTM D5133-20a	
	New and In- service Steam Turbine Oils	Rotating Pressure Vessel Oxidation Stability at 150°C	ASTM D2272-14a Method B	
	Liquid hydrocarbons, petroleum and Lubricating oil	Nitrogen, by boat-inlet Chemiluminescence	ASTM D5762 -18a	

Note: the text in blue indicates the new scope OR update in the Edition of a test method in this issue of the scope of accreditation.

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Log of Suspended Scopes:

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Date Suspended	Date Reinstated

Log of Withdrawn Scopes:

TEST CATEGORY	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS / PARAMETERS OR PROPERTIES, COMPONENTS, CHARACTERISTICS TESTED	SPECIFICATION, STANDARD TEST METHOD OR TECHNIQUE USED	Date Withdrawn

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END

This conformity assessment body (CAB) is recorded as issuing GAC accredited reports to organizations in the countries listed below. This list is current at the time of issue of this schedule.

United Arab Emirates	Bahrain	Saudi Arabia	Oman	Qatar	Kuwait	Yemen
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