

Accreditation Scope

SGS Gulf Limited, SGS Oil, Gas and Chemical Laboratory, NAL 092
Testing Laboratory, (ISO/IEC 17025:2017)
Fujairah Port, Fujairah, UAE

Issue Date: 04-01-2020
Issue No: 04

Expiry Date: 10-06-2021

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Chemical & Physical	Fuel Oil	Acid Number / 0.1 to 150 mg/g KOH	ASTM D664-18e2	P
		Ash Content / 0.001 to 0.180 % mass	ASTM D482-19	
		Ash Content / 0.001 to 0.180 % mass	ISO 6245-01	
		Calculated Carbon Aromaticity Index (CCAI)	ISO 8217 Annex C :2017	
		Density	IP 365 – 97 (2019)	
		Density	ASTM D1298-12b (2017)	
		Density	ISO 12185-96	
		Density	ISO 3675-98	
		Flash point / 40 to 370°C	ASTM D93-20	
Chemical & Physical	Fuel Oil	Flash point / 40 to 370°C	ISO 2719-16	P
		Hydrogen Sulfide In Liquid Phase	IP 570 – 15	
		Kinematic Viscosity / 0.2 to 300000 cst	ASTM D445-19a	

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		Kinematic Viscosity / 0.2 to 300000 cst	ISO 3104-20	
		Micro Carbon Residue / 0.10 to 30.0 % mass	ASTM D4530-15(2020)	
		Micro Carbon Residue / 0.10 to 30.0 % mass	ISO 10370-14	
		Net Calorific Value	ASTM D4868-17	
		Pour point	ASTM D97-17b	
		Pour point	ISO 3016-19	
Chemical & Physical	Fuel Oil	Sulphur Content/ 17mg/kg to 4.6%mass	ASTM D4294-16e1	P
		Sulphur Content/ 17mg/kg to 4.6%mass	ISO 8754-03	
		Aluminium/ 5 to 150 ppm	IP 501 – 05	
		Silicon/ 10 to 250 ppm	IP 501 – 05	
		Calcium/	IP 501- 05	

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		3 to 100 ppm		
		Zinc/ 1 to 70 ppm	IP 501 – 05	
		Phosphorus/ 1 to 60 ppm	IP 501 – 05	
		Vanadium/ 1 to 400 ppm	IP 501 – 05	
		Sodium / 1 to 100 ppm	IP 501- 05	
		Iron/ 2 to 60 ppm	IP 501 – 05	
		Nickel/ 1 to 100 ppm	IP 501 – 05	
Chemical & Physical	Fuel Oil	Total Sediment Potential	IP 390A – 15 (2017)	P
		Total Sediment Potential	ISO 10307- Part 2A- 09	
		Total Sediment Accelerated	IP 390 Part 2B – 15 (2017)	
		Total Sediment Accelerated	ISO 10307- Part 2B – 09	
		Water Content/ 0 to 25 % (v/v)	ASTM D95-13 (2018)	
		Water Content/ 0 to 25 % (v/v)	ISO 3733-1999	
		Nitrogen Content/ 40 to 10000 µg/g	ASTM D5762-18a	

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		Total Sediment Existent	IP 375 – 11 (2018)	
		Total Sediment Existent	ISO 10307-Part 1 – 09	
		Compatibility	ASTM D4740-19	
		API	ASTM D1298-12b (2017)	
		API	ISO 3675-98	
Chemical	Gas oil	Acid Number / 0.1 to 150 mg/g KOH	ASTM D664 – 18e2	P
		Ash Content/ 0.001 to 0.180 %mass	ASTM D482-19	
		Ash Content/ 0.001 to 0.180 %mass	ISO 6245-01	
		Appearance	Visual	
		Calculated Cetane Index	ASTM D976-06 (2016)	
		Calculated Cetane Index	ASTM D4737-10 (2016)	
		Density	ASTM D4052-18a	

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		Density	ASTM D1298-12b (2017)	
		Density	ISO 12185-96	
Chemical	Gas oil	Density	ISO 3675 – 98 (2005)	P
		Distillation	ASTM D86-20a	
		Distillation	ISO 3405-19	
		Flash point/ 40 to 370°C	ASTM D93-20	
		Flash point/ 40 to 370°C	ISO 2719 - 16	
		Hydrogen Sulfide In Liquid Phase	IP 570 - 15	
		Kinematic Viscosity/ 0.2 to 300000 cst	ASTM D445-19a	
		Kinematic Viscosity/ 0.2 to 300000 cst	ISO 3104-2020	
		Micro Carbon Residue on 10% Residue/	ASTM D4530-15 (2020)	

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		0.1 to 30 %mass		
		Micro Carbon Residue on 10% Residue/ 0.1 to 30 %mass	ISO 10370 - 14	
		Pour point	ASTM D97-17b	
		Pour point	ISO 3016 - 19	
		Sulphur Content/ 17mg/kg to 4.6%mass	ASTM D4294-16e1	
		Sulphur Content/ 17mg/kg to 4.6%mass	ISO 8754 - 03	
		Water Content/ 0 to 25 % volume	ASTM D95-13(2018)	
		Water Content/ 0 to 25 % volume	ISO 3733 - 99	
		Colour/ 0.5 to 8.0 Rating	ASTM D1500-12 (2017)	
		Colour/ 0.5 to 8.0 Rating	ISO 2049 - 96	
Chemical	Gas oil			P
Chemical	Gas oil	Cloud Point	ASTM D2500-17a	P

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		Cloud Point	ISO 3015-2019	
		Copper Corrosion	ASTM D130-19	
		Copper Corrosion	ISO 2160 - 98	
		Water Content (KF) / 10 mg/kg to 25000 mg/kg	ASTM D6304-16e1	
		Water & Sediment/ 0 to 30% volume	ASTM D1796-11(2016)	
		Water & Sediment/ 0 to 30% volume	ISO 3734 - 97	
		Nitrogen/ 0.3 to 100 mg/kg	ASTM D4629-17	
		Sulphur/ 1 to 8000 mg/kg	ASTM D5453-19a	
		Sulphur/ 1 to 8000 mg/kg	ISO 20846 - 19	
Chemical	Gasoline	Density	ASTM D4052-18a	P
		Density	ASTM D1298-12b (2017)	
		Density	ISO 12185 - 96	

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		Density	ISO 3675-98	
		API Gravity	ASTM D4052-18a	
		API Gravity	ASTM D1298-12b (2017)	
		API Gravity	ISO 12185 – 96	
		API Gravity	ISO 3675-98	
		Sulfur/ 17mg/kg to 4.6%mass	ASTM D4294-16e1	
		Sulfur/ 17mg/kg to 4.6%mass	ISO 8754 – 03	
		Sulfur/ 1 to 8000 mg/kg	ASTM D5453-19a	
Chemical	Gasoline	Sulfur/ 1 to 8000 mg/kg	ISO 20846 – 19	P
		Distillation	ASTM D86-20a	
		Distillation	ISO 3405 - 19	
		Research Octane Number (RON)/ 40 to 120 Rating	ASTM D2699-19	

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		Motor Octane Number (MON)/ 40 to 120 Rating	ASTM D2700-19	
		Copper Corrosion	ASTM D130-19	
		Copper Corrosion	ISO 2160 - 98	
		Lead Content/ 2.5 to 25 mg/L	ASTM D3237-17	
		Manganese/ 0.25 to 40 mg/L	ASTM D3831-12 (2017)	
		Doctor Test	ASTM D4952-12 (2017)	
		Doctor Test	IP 30 – 2015	
		Appearance	Visual	
	Gasoline	Aromatics	ASTM D1319-20a	P
		Oxidation Stability	ASTM D525-12a (2019)	
		Determination of Benzene, Toluene, Ethyl benzene, p/m Xylene, o Xylene, C9 and Havier Aromatics and Total Aromatics in Finished Gasoline by Gas Chromatography	ASTM D5580-20	
		Determination of individual component in spark ignition engine fuel by 100 meter	ASTM D6730-19	

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Chemical		capillary with precolumn) high resolution Gas chromatography		
		Determination of MTBE, ETBE, TAME, DIPE, tertiary amyl Alcohol & C1 to C4 alcohol in gasoline by gas chromatography	ASTM D4815-15b (2019)	
		Standard Test Method for Hydrocarbon Types, Oxygenated Compounds, and Benzene in Spark Ignition Engine Fuels by Gas Chromatography	ASTM D6839-18	
	Crude Oil	Density	ASTM D5002-19	
		Density	ASTM D1298-12b (2017)	
		Density	ISO 3675-98	
		API Gravity	ASTM D5002-19	
		API Gravity	ASTM D1298 -12b (2017)	
		API Gravity	ISO 3675-98	
		Water Content (Karl Fischer)/ 0.02 to 5.0 % mass	ASTM D4928-12 (2018)	
		Sulphur Content/ 17mg/kg to 4.6%mass	ASTM D4294-16e1	
		Sulphur Content/ 17mg/kg to 4.6%mass	ISO 8754 - 03	
		Acid Number/ 0.1 to 150 mg/gKOH	ASTMD664-18e2	
		Base Sediment & Water by Centrifuge/	ASTM D4007-11 (2016)e1	

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		0 to 100 %vol		
		Distillation of -CrudePetroleum(15 Theoretical Plate (Column	ASTM D2892-2020	
END				