

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 082
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Accreditation No: LAB 082

Awarded to

SGS Oil, Gas and Chemicals Testing Lab, Karachi, Pakistan.

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **27-11-2014** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2005**.

The accreditation requires regular surveillance, and is valid until **26-11-2017**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

Date

Director General



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Testing Laboratory.

Accreditation Scope SGS Oil, Gas and Chemicals Testing Lab, Karachi, Pakistan.

Permanent laboratory premises

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
ETHANOL	Oil, Gas & Chemicals	Esters as Ethyl Acetate	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Aldehyde as Acetaldehyde	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	*Total Higher Alcohols	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Methanol	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Furfural	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Benzene	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Crotonaldehyde	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	ISO-Propanol (IPA)	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	N Propanol	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Iso-Butanol	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	N-Butanol	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Iso-Amyl Alcohol	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	N-Amyl Alcohol	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Sec Butanol	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Tert Butanol	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Acetal	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Cyclohexane	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Acetone	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	2 methyl-1-butanol	OGC/SGS ETOH 0001-10
ETHANOL	Oil, Gas & Chemicals	Strength by volume @ 20°C	OIML
ETHANOL	Oil, Gas & Chemicals	Acidity as Acetic Acid	ASTM D-1613- 06(2012)
ETHANOL	Oil, Gas & Chemicals	Water Content	ASTM E-203-08
ETHANOL	Oil, Gas & Chemicals	Hydrocarbons	OGC/2007/SOP-IEH/03
ETHANOL	Oil, Gas & Chemicals	Permanganate Time Test	ASTM D-1363- 06(2011)
ETHANOL	Oil, Gas & Chemicals	Curve	UV Spectrophotometer
ETHANOL	Oil, Gas & Chemicals	Copper as Cu	ASTM D1688-12
ETHANOL	Oil, Gas & Chemicals	Total Sulphur	ASTM D-5453-12
ETHANOL	Oil, Gas & Chemicals	Water Miscibility	ASTM D- 1722-09
ETHANOL	Oil, Gas & Chemicals	Lead as Pb	ASTM D3559-08
ETHANOL	Oil, Gas & Chemicals	Color	ASTM D-120905(2011)
ETHANOL	Oil, Gas & Chemicals	Chloride content	OGC/2207/80-CE/00
ETHANOL	Oil, Gas & Chemicals	pH	ASTM D-6423-08

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ETHANOL	Oil, Gas & Chemicals	Odor	Organoleptic
ETHANOL	Oil, Gas & Chemicals	Density	ASTM D-4052-11
ETHANOL	Oil, Gas & Chemicals	Dry Matter	ASTM D-1353-13
ETHANOL	Oil, Gas & Chemicals	Absorbance @ 270nm	(UV Spectrophotometer)
ETHANOL	Oil, Gas & Chemicals	Absorbance @ 240nm	(UV Spectrophotometer)
ETHANOL	Oil, Gas & Chemicals	Absorbance @ 230nm	(UV Spectrophotometer)
ETHANOL	Oil, Gas & Chemicals	Absorbance @ 220nm	(UV Spectrophotometer)
GASOIL	Oil, Gas & Chemicals	Acid number	ASTM D664-11
GASOIL	Oil, Gas & Chemicals	Ash content	ASTM D482-13
GASOIL	Oil, Gas & Chemicals	Cetane Index	ASTM D976-06(2011)
GASOIL	Oil, Gas & Chemicals	CFPP	ASTM D6371-05(2011)
GASOIL	Oil, Gas & Chemicals	Cloud Point	ASTM D2500-11
GASOIL	Oil, Gas & Chemicals	Color ASTM	ASTM D1500-12
GASOIL	Oil, Gas & Chemicals	Conradson Carbon Residue on 10% distillation residue	ASTM D189- 06(2010)
GASOIL	Oil, Gas & Chemicals	Copper corrosion 3hrs@50 oC	ASTM D130-12
GASOIL	Oil, Gas & Chemicals	Density @ 15°C	ASTM D4052-11
GASOIL	Oil, Gas & Chemicals	IBP	ASTM D86-12
GASOIL	Oil, Gas & Chemicals	10 % Recovery	
GASOIL	Oil, Gas & Chemicals	50 % Recovery	
GASOIL	Oil, Gas & Chemicals	90 % Recovery	
GASOIL	Oil, Gas & Chemicals	95 % Recovery	
GASOIL	Oil, Gas & Chemicals	FBP	
GASOIL	Oil, Gas & Chemicals	Flash Point PMcc	ASTM D93-13
GASOIL	Oil, Gas & Chemicals	Kinematic viscosity	ASTM D445-14
GASOIL	Oil, Gas & Chemicals	Viscosity Stabinger	ASTM D7042-14
GASOIL	Oil, Gas & Chemicals	Nitrogen	ASTM D 4629-12
GASOIL	Oil, Gas & Chemicals	Pour Point	ASTM D 97-12
GASOIL	Oil, Gas & Chemicals	Sulphur content	ASTM D 5453-12
GASOIL	Oil, Gas & Chemicals	Water content	ASTM D 6304-07
FUEL OIL	Oil, Gas & Chemicals	Acid Number	ASTM D664-11
FUEL OIL	Oil, Gas & Chemicals	API Gravity	ASTM D1298-12
FUEL OIL	Oil, Gas & Chemicals	Ash Content	ASTM D482-13
FUEL OIL	Oil, Gas & Chemicals	Conradson Carbon Residue	ASTM D189-06(2010)
FUEL OIL	Oil, Gas & Chemicals	Density at 15°C	ASTM D4052-11
FUEL OIL	Oil, Gas & Chemicals	Flash Point PMcc	ASTM D93-13
FUEL OIL	Oil, Gas & Chemicals	Heat of Combustion	ASTM D240-09
FUEL OIL	Oil, Gas & Chemicals	Kinematic viscosity	ASTM D445-14
FUEL OIL	Oil, Gas & Chemicals	Pour Point	ASTM D97-12
FUEL OIL	Oil, Gas & Chemicals	Sediments by extraction	ASTM D473-07(2012)
FUEL OIL	Oil, Gas & Chemicals	Total Sulphur Content	ASTM D5453-12
FUEL OIL	Oil, Gas & Chemicals	Nickel	ASTM D5863-00(2011)
FUEL OIL	Oil, Gas & Chemicals	Iron	ASTM D5863-00(2011)
FUEL OIL	Oil, Gas & Chemicals	Sodium	ASTM D5863-00(2011)

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FUEL OIL	Oil, Gas & Chemicals	Vanadium	ASTM D5863-00(2011)
JET FUEL	Oil, Gas & Chemicals	Density at 15°C	ASTM D4052-11
JET FUEL	Oil, Gas & Chemicals	Saybolt color	ASTM D156-12
JET FUEL	Oil, Gas & Chemicals	Flash Point (Abel Cup)	IP 170
JET FUEL	Oil, Gas & Chemicals	Freezing Point	ASTM D2384-83(2014)
JET FUEL	Oil, Gas & Chemicals	IBP	ASTM D86-12
JET FUEL	Oil, Gas & Chemicals	10 % Recovery	
JET FUEL	Oil, Gas & Chemicals	50 % Recovery	
JET FUEL	Oil, Gas & Chemicals	90 % Recovery	
JET FUEL	Oil, Gas & Chemicals	95 % Recovery	
JET FUEL	Oil, Gas & Chemicals	FBP	

Date

Director