



STS Directory

Accreditation number: STS 0579

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 01.11.2012
Current accreditation: 01.11.2022 to 31.10.2027
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 01.11.2022

Testing laboratory for chemical and physical tests of petroleum, petroleum products, oil and lubricants

Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Petroleum and petroleum products oil and lubricants	<p>Chemical and physical Tests</p> <p>Elemental analysis by ICP-OES Al, Sn, Mn, Cu, Cr, Ti, Pb, Na, W, Ni, B, P, Fe, Zn, Si, Ca, Cd, Ag, Mg, Sb, Mo, Ba, Be, Li, V, K, S, Cl.</p> <p>General filter analysis by chemical and SEM analysis: AMS numbers quoted to nearest match in SAE and AMS numbers</p>	<p>M019 based on ASTM D5185</p> <p>M032</p>



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Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Petroleum and petroleum products oil and lubricants	<p>Particle examination by SEM composition of solid particles quoted in SAE and AMS numbers</p> <p>Oxidation, nitration, glycol and water by FTIR quoted in Abs/cm or %wt</p> <p>Total Acid Number (TAN) of oils using automatic titroprocessor quoted in mg KOH/g</p> <p>Total Base Number (TBN) using automatic titroprocessor quoted in mg KOH/g</p> <p>Water content using automatic coulometric titration</p> <p>Water contamination (positive or negative), qualitative determination by crackle test quoted in +ve or -ve</p> <p>Initial pH by pH meter</p> <p>Determination of the Flash Point by Cleveland Open Cup</p> <p>Determination of the Flash Point by Pensky Martin</p> <p>Determination of the Flash Point</p> <p>Insoluble matter by Pentane membrane filtration</p> <p>Metallic debris</p> <p>Colour (Lovibond) Range 0-8 Lovibond units</p> <p>Density and Specific Gravity of petroleum products using Densitometer and autosampler</p>	<p>M013</p> <p>M017 based on MM 1067</p> <p>M007 based on ASTM 664 and IP 177</p> <p>M006 based on IP 276 and ASTM D2896</p> <p>M023 adapted from ASTM D6304C</p> <p>M026</p> <p>M016 based on ASTM D7946</p> <p>M020 based on ASTM D92</p> <p>M031 based on ASTM D93 and IP34</p> <p>M001 based on ASTM D7094 and ASTM D93A (mode)</p> <p>M010 based on MM 1068</p> <p>M022 based on WI 1456-1</p> <p>M009 based on ASTM ASTM D6045 and converted instrumentally to ASTM D1500</p> <p>M011 based on ASTM D5002</p>



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Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Petroleum and petroleum products oil and lubricants	Viscosity of new and used oil at 40 ° C and 100° C by semi-automatic viscometer ISL and Cannon quoted in centistokes	M002 based on ASTM D445
Transformer oil	Particle sizing and counting (contamination) in 1 ml or 100 ml of sample by Particle counter, quoted in counts/100 ml or 1 ml	M033
	Water content by Coulometric Karl Fischer Titration	ASTM D1533
	Determination of Dielectric Break-down Voltage using VDE (Verband Deutscher Elektrotechniker) Electrodes	ASTM D1816
	Content of dissolved gases by Gas Chromatography	ASTM D3612 Method C

Abbreviation	Signification
AMS	Aerospace Material Specifications
ASTM	American Society for Testing and Materials
FTIR	Fourier Transform Infrared Spectroscopy
ICP	Inductively Coupled Plasma
IP	IP Standard Test Methods from Energy Institute (EI)
ISL	Integrated Scientific Limited
Mnnn	In-House Method
MM	Mobil Method
SAE	Society of Automotive Engineers
SEM	Scanning Electron Microscope
WInnn	Working instruction

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