



## STS Directory

**Accreditation number: STS 0579**

International standard: ISO/IEC 17025:2005  
Swiss standard: SN EN ISO/IEC 17025:2005

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Initial accreditation: 01.11.2012  
Current accreditation: 01.11.2017 to 31.10.2022  
Scope of accreditation see: [www.sas.admin.ch](http://www.sas.admin.ch)  
(Accredited bodies)

### Scope of accreditation as of 01.11.2017

#### 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 <sup>2)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Petroleum and petroleum products oil and lubricants	<p><b>Chemical and physical Tests</b></p> <p>Elemental analysis by ICP-OES Al, Sn, Mn, Cu, Ti, Pb, Na, W, Ni, B, P, Fe, Zn, Si, Ca, Cd, Ag, Mg, Sb, Mo, Ba, Be, K, S, Cl.</p> <p>General filter analysis by chemical and SEM analysis: AMS numbers quoted to nearest match in SAE</p> <p>Particle examination by SEM composition of solid particles quoted in SAE and AMS numbers</p>	<p>In-House Methods in the series Mnnn, as listed below</p> <p>M019 based on ASTM D5185</p> <p>M032</p> <p>M013</p>



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Group of products or materials, field of activity	Principle of measurement <sup>2)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
	<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, quoted as +ve or -ve</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>Viscosity of new and used oil at 40 ° C and 100° C by semi-automatic viscometer ISL and Cannon quoted in centistokes</p> <p>Particle sizing and counting (contamination) in 1 ml or 100 ml of sample by Particle counter, quoted in counts/100 ml or 1 ml</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</p> <p>M020 based on ASTM D92</p> <p>M031 based on ASTM D93 and IP34</p> <p>M001 based on IP 303 GO-NO-GO Flash</p> <p>M010 based on MM 1068</p> <p>M022 based on WI 1456-3</p> <p>M009 based on ASTM 1500/IP 196</p> <p>M011 based on ASTM D5002</p> <p>M002 based on IP 71, Section 1</p> <p>M033</p>



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Abbreviation	Signification
AMS	Aerospace Material Specifications
ASTM	American Society for Testing and Materials
FTIR	Fourier Transform Infrared Spectroscopy
ICP	Ion-coupled-Plasma-Analyser
IP	IP Standard Test Methods from Energy Institute (EI)
ISL	Integrated Scientific Limited
MM	Mobil Method
SAE	Society of Automotive Engineers
SEM	Scanning Electron Microscope
XRF	XRay Spectrometry
+ve / -ve	Positive / Negative

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