



## STS Directory

Accreditation number: STS 0579

International standard: ISO/IEC 17025:2017

Swiss standard: SN EN ISO/IEC 17025:2018

Spectro Oil AG  
Landstrasse 23  
4303 Kaiseraugst

Head: David Glass  
Responsible for MS: Alison Potere  
Telephone: +41 61 815 90 20  
E-Mail: [enquiries@spectro-oil.com](mailto:enquiries@spectro-oil.com)  
Internet: [www.spectro-oil.com](http://www.spectro-oil.com)  
Initial accreditation: 01.11.2012  
Current accreditation: 01.11.2022 to 31.10.2027  
Scope of accreditation see: [www.sas.admin.ch](http://www.sas.admin.ch)  
(Accredited bodies)

### Scope of accreditation as of 13.05.2024

#### 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	<b>Chemical and physical Tests</b>  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.  General filter analysis by chemical and SEM analysis: AMS numbers quoted to nearest match in SAE and AMS numbers	M019 based on ASTM D5185  M032



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



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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  Particle sizing and counting (contamination) in 1 ml or 100 ml of sample by Particle counter, quoted in counts/100 ml or 1 ml	M002 based on ASTM D445  M033

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
Wlnnn	Working instruction

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