

Scope of Accreditation For Insight Services Inc. DBA TestOil

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In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **Insight Services Inc. DBA TestOil** to perform the following tests:

Accreditation granted through: **January 26, 2019**

Testing - Chemical

Technology	Range, when necessary	Methods Used	Product Types	Remarks
Acid Number		ASTM D974 Modified	Lubricants	
Base Number		ASTM D4739	Lubricants	
Base Number by FTIR		IWI-390	Lubricants	
Demulsibility		ASTM D1401	Lubricants	
Flash Point (open cup)		ASTM D92	Lubricants	
Foam		ASTM D892-IP146 (Alternative)	Lubricants	
ICP		ASTM D5185 Modified	Lubricants	
Membrane Patch Colorimetry		ASTM D7843	Lubricants	
Particle Count		IWI-150 Pore Blockage	Lubricants	
Particle Count		IWI-151 Optical	Lubricants	
pH		IWI-142	Lubricants, Coolants	
Reserve Alkalinity		IWI-143	Lubricants, Coolants	
RULER (Linear Sweep Voltammetry)		ASTM D6971	Lubricants	
Sugar		IWI-200	Fuel, Lubricants	
Varnish Potential Ultra Centrifuge		IWI-251	Lubricants	
Viscosity		ASTM D445 Modified	Lubricants	

Technology	Range, when necessary	Methods Used	Product Types	Remarks
Water by Karl Fischer (coulometric)		ASTM D6304	Lubricants	
Ferrous Wear Concentration		IWI-160	Lubricants	
Rust		ASTM D665	Lubricants	
Color		ASTM D1500	Lubricants	
RPVOT		ASTM D2272	Lubricants	
Crackle Test		IWI-130	Lubricants	
FTIR		ASTM E2412 ASTM D7414	Lubricants	Oxidation
FTIR		ASTM E2412	Lubricants	Nitration, Glycol, Soot, Fuel Dilution, Other Fluid,
FTIR		ASTM E2412 ASTM D7412	Lubricants	Antiwear
FTIR		ASTM E2412 ASTM D7415	Lubricants	Sulfate
FTIR		IWI-110 (24KT method)	Lubricants	
FTIR		IWI-110 (Turbine Parameters)	Lubricants	
FTIR		IWI-110 (Polyol Ester Alcohol)	Lubricants	
FTIR		IWI-110 (Phosphate Ester Alcohol, Phosphate Ester Oxidation)	Phosphate Esters	
Fuel Dilution by Gas Chromatography		ASTM D7593	Lubricants	
Chlorine in Used Petroleum Products		ASTM D5384 Test Method B	Lubricants	
Copper Corrosion		ASTM D130	Hydrocarbon Fluids	

Notes:

- 1) This laboratory offers commercial testing service.

Approved by:



 R. Douglas Leonard
Chief Technical Officer

 Date: June 29, 2017