

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Insight Services, Inc. DBA TestOil

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TESTING

Valid to: **January 26, 2019**

Certificate Number: **L2221**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
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	

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Viscosity	ASTM D445 Modified	Lubricants	
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	
Glycol	ASTM 2982 Modified	Lubricants	Hach Test Kit

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. L2221.



Vice President

