



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Insight Services, Inc. DBA TestOil

20338 Progress Drive
Strongsville, OH 44149
Anna Amaddio 216-251-2510
aamaddio@testoil.com

TESTING

Valid to: January 26, 2019

Certificate Number: L2221

Chemical

Table with 4 columns: Specific Tests and/or Properties Measured, Specification, Standard, Method, or Test Technique, Items, Materials or Product Tested, Key Equipment or Technology. Rows include Acid Number, Base Number, Base Number by FTIR, Demulsibility, Flash Point (open cup), Foam, ICP, Membrane Patch Colorimetry, Particle Count, pH, Reserve Alkalinity, RULER (Linear Sweep Voltammetry), Sugar, and Varnish Potential Ultra Centrifuge.

**Chemical**

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



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Vice President

