

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**Insight Services, Inc. DBA TestOil**

20338 Progress Drive  
 Strongsville, OH 44149  
 Muge Bilgin  
 216-251-2510  
 mbilgin@testoil.com

**TESTING**

Valid to: **January 26, 2021**

Certificate Number: **L2221**

**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>
Acid Number	ASTM D974 Modified	Lubricants	Titration
Base Number	ASTM D4739	Lubricants	Titration
Base Number	IWI-390	Lubricants	FTIR
Demulsibility	ASTM D1401	Lubricants	
Flash Point (open cup)	ASTM D92	Lubricants	Open Cup Flash Point Tester
Foam	ASTM D892-IP146 (Alternative, Sequence I)	Lubricants	
Foam	ASTM D892-IP146 (Alternative, Sequences II & III)	Lubricants	
Elemental Analysis	ASTM D5185 Modified	Lubricants	ICP
Membrane Patch Colorimetry	ASTM D7843	Lubricants	Colorimeter
Particle Count	IWI-150	Lubricants	Pore Blockage
Particle Count	IWI-151	Lubricants	Optical
pH	IWI-142	Lubricants, Coolants	pH Meter
Reserve Alkalinity	IWI-143	Lubricants, Coolants	pH Meter
RULER (Linear Sweep Voltammetry)	ASTM D6971	Lubricants	

**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>
Sugar	IWI-200	Fuel, Lubricants	
Varnish Potential	IWI-251	Lubricants	Ultra Centrifuge
Viscosity	ASTM D445 Modified	Lubricants	Viscometer
Water by Karl Fischer	ASTM D6304	Lubricants	Coulometric Titration
Ferrous Wear Concentration	IWI-160	Lubricants	
Rust	ASTM D665	Lubricants	
Color	ASTM D1500	Lubricants	Colorimeter
RPVOT	ASTM D2272	Lubricants	
Crackle Test	IWI-130	Lubricants	
Oxidation	ASTM E2412 ASTM D7414	Lubricants	FTIR
Nitration, Glycol, Soot, Fuel Dilution, Other Fluid	ASTM E2412	Lubricants	FTIR
Antiwear	ASTM E2412 ASTM D7412	Lubricants	FTIR
Sulfate	ASTM E2412 ASTM D7415	Lubricants	FTIR
24KT method	IWI-110	Lubricants	FTIR
Turbine Parameters	IWI-110	Lubricants	FTIR
Polyol Ester Alcohol	IWI-110	Lubricants	FTIR
Phosphate Ester Alcohol, Phosphate Ester Oxidation	IWI-110	Phosphate Esters	FTIR
Resistivity	ASTM D1169 (Routine)	Lubricants, Insulating Liquids	Resistivity Tester
Fuel Dilution	ASTM D7593	Lubricants	Gas Chromatography
Chlorine in Used Petroleum Products	ASTM D5384 Test Method B	Lubricants	Clor-D-Tect Titration
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

