



**THE AMERICAN
ASSOCIATION
FOR LABORATORY
ACCREDITATION**

ACCREDITED LABORATORY

A2LA has accredited

POLARIS LABORATORIES, LLC
Indianapolis, IN

for technical competence in the field of
Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005*).

Presented this 22nd day of March 2006.





President
For the Accreditation Council
Certificate Number 2145.01
Valid to March 31, 2008

For the tests or types of tests to which this accreditation applies,
please refer to the laboratory's Chemical Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CHEMICAL

Valid To: March 31, 2008

Certificate Number: 2145.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on petroleum products including oil, fuel, hydraulic fluid, lubricants and coolants:

<u>Test</u>	<u>Test Method(s)</u>	<u>SOP</u>
Lubricants / Oils		
Analytical Ferrography	In-House Method	I5-54-11
Chlorine	ASTM D5384	I5-54-75
Direct Reading Ferrography	In-House Method	I5-54-22
ICP Elemental Analysis Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Si, Sn, Ti, V, Zn	mod-ASTM D5185	C5-54-11
Fuel Dilution %	FTIR-ASTM E2412	I5-54-67
Fuel Sniffer	Manufacturer Method	I5-54-73
Fuel Soot %	FTIR-ASTM E2412	I5-54-67
Glycol	mod-ASTM D2982	I5-54-20
Gravimetric Solids	In-House Method	I5-54-23
Oxidation / Nitration	FTIR-ASTM E2412	I5-54-67
Particle Count (Calibration 11171)	mod-ISO 11500	I5-54-2
Particle Quantifier	Manufacturer Method	I5-54-63

<u>Test</u>	<u>Test Method(s)</u>	<u>SOP</u>
Rust	ASTM D665	I5-54-88
Mini-Flash	ASTM D6450	I5-54-74
Fire Point	ASTM D92	I5-54-21
Flash Point – Cleveland Open Cup	ASTM D92	I5-54-21
RPVOT	ASTM D2272	I5-54-27
Soot	Manufacturer Method	I5-54-66
Total Acid Number, pH, strong acid	mod–ASTM D664	I5-54-13
Total Base Number	mod–ASTM D4739	I5-54-13
Viscosity @ 40° or 100° C	mod–ASTM D445	I5-54-12
Viscosity Index (calculation)	ASTM D2270	I5-54-12
Water % (estimate)	FTIR – ASTM E2412	I5-54-67
Water % by Crackle	In-House Method	I5-54-4
Water by Karl Fischer (% or ppm)	mod–ASTM D1744-92 (retired)	I5-54-14
Water Separability Characteristics	ASTM D1401	I5-54-28
Coolants		
Antifreeze % Refractometer	In-House Method	I5-54-17
Freeze Point & Boil Point Calculation	In-House Method	I5-54-18
Hardness % Calcium Carbonate	In-House Method	I5-54-29
ICP Elemental Analysis Al, B, Ca, Cu, Fe, K, Mg, Na, P, Pb, Si, Zn, Mo	ASTM D6130	C5-54-11
Nitrites	In-House Method	I5-54-16
pH Waters	In-House Method	I5-54-19
SCA Number	In-House Method	I5-54-29
Visual Coolant Testing	In-House Method	I5-54-76
Conductivity & TDS	In-House Method	I5-54-82
Ion Chromatography	ASTM D5827	I5-54-83
Nitric Acid Digestion of Solid Waste	ASTM D5198	I5-54-77

<u>Test</u>	<u>Test Method(s)</u>	<u>SOP</u>
Fuels		
Aerobic Bacteria	Manufacturer Method	I5-54-40
API Gravity	ASTM D287	I5-54-26
Bacteria, Fungi, & Mold	Manufacturer Method	I5-54-41
Cloud Point	ASTM D2500	I5-54-24
Flash Point: Pensky-Martin	ASTM D93	I5-54-32
Pour Point	ASTM D97	I5-54-25
Specific Gravity (calculation)	ASTM D287	I5-54-26
Thermal Stability	mod – ASTM D6468	I5-54-38
Water & Sediment	mod – ASTM D1796	I5-54-42
Distillation	ASTM D86	I5-54-89