THE AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

POLARIS LABORATORIES, LLC
Houston, TX

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 15th day of March 2006.

AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION
CORPORATE SEAL 1978 DISTRICT OF COLUMBIA
A2LA

President
For the Accreditation Council
Certificate Number 2145.02
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

POLARIS LABORATORIES, LLC
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Houston, TX 77018
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CHEMICAL

Valid To: March 31, 2008 Certificate Number: 2145.02

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:

Test	Test Method	SOP(s)
Coolants		
Antifreeze % Refractometer	In-House Method	I5-54-17
Freeze Point (calculation)	In-House Method	I5-54-29
ICP Elemental Analysis Al, B, Ca, Cu, Fe, K, Mg, Mo, Na, P, Pb, Si, Zn	ASTM D6130	C5-54-6 C5-54-13
Nitrites	In-House Method	I5-54-16
pH Waters	In-House Method	I5-54-19
SCA Number (calculation)	In-House Method	I5-54-29
Conductivity/Total Dissolved Solids	In-House Method	I5-54-82
Visual Coolant Testing	In-House Method	I5-54-76

Test	Test Method	SOP(s)
Lubricants/Oils		
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, Mo, Na, Ni, P, Pb, Sb, Si, Sn, Ti, V, Zn	mod-ASTM D5185	C5-54-6
Fuel Sniffer	Manufacturer Method	I5-54-73
Fuel Soot %	FTIR – ASTM E2412	I5-54-67
Oxidation/ Nitration	FTIR – ASTM E2412	I5-54-67
Water % (estimate)	FTIR – ASTM E2412	I5-54-67
Fuel Dilution	FTIR – ASTM E2412	I5-54-67
Glycol	mod-ASTM D2982	I5-54-20
Particle Count (Calibration 11171)	mod-ISO 11500	I5-54-2
Total Acid Number, pH	mod-ASTM D664	I5-54-10, -68, -71
Total Base Number	mod-ASTM D4739	I5-54-10, -68, -71
Viscosity @ 40°C or 100° C	mod-ASTM D445	I5-54-12
Viscosity Index (calculation)	ASTM D2270	I5-54-12
Water % by Crackle (estimate)	In-House Method	I5-54-4
Water by Karl Fischer (% or ppm)	mod-ASTM D1744-92 (retired)	I5-54-69