



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

POLARIS LABORATORIES, LLC  
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Houston, TX 77064  
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CHEMICAL

Valid To: December 31, 2020

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:

<u>Test(s)</u>	<u>Test Method(s)</u>
<b>Lubricants/Oils</b>	
Acid Number	WI-0175 (Based on Modified ASTM D664)
Base Number	WI-0195 (Based on Modified ASTM D4739)
Fuel Dilution by Gas Chromatography	WI-0086; ASTM D7593
Fuel Soot % (FTIR)	WI-0256; ASTM E2412
Glycol	WI-0024 (Based on Modified ASTM D2982)
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	WI-0121 (Based on Modified ASTM D5185)
i-pH	WI-0175 (Based on Modified ASTM D7946)
Oxidation/Nitration (FTIR)	WI-0256; ASTM E2412
Particle Count	WI-0322; ASTM D7647; ISO 4406 (Based on Modified ISO 11500)
Particle Quantifier	WI-0255
Viscosity @ 40° C or 100° C	WI-0061 (Based on Modified ASTM D445)

<b><u>Test(s)</u></b>	<b><u>Test Method(s)</u></b>
Viscosity Index (Calculation)	WI-0234; ASTM D2270 X2
Water % (Estimate) (FTIR)	WI-0256; ASTM E2412
Water % by Crackle	WI-0012
Water by Karl Fischer (% or ppm)	WI-0237 (Based on Modified ASTM D6304C)
<b>Coolants</b>	
Antifreeze % Refractometer	WI-0087
Conductivity & Total Dissolved Solids	WI-0056
Freeze Point & Boil Point (Calculation)	WI-0126
Hardness % Calcium Carbonate (Calculation)	WI-0127
ICP Elemental Analysis Ag, Al, B, Ca, Cu, Fe, K, Mg, Mo, Na, P, Pb, Si, Sn, Zn	WI-0120 (Based on Modified ASTM D6130)
Nitrites	WI-0276
pH Waters	WI-0023; ASTM D1287
SCA Number	WI-0127
Visual Coolant Testing	WI-0053
<b>Fuels</b>	
Aerobic Bacteria	WI-0036
API Gravity	WI-0266; ASTM D4052
Bacteria, Fungi, Mold	WI-0037
Specific Gravity (Calculation)	WI-0164



## *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 17025:2017 *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 April 2017).



Presented this 27<sup>th</sup> day of April 2018.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2145.02  
Valid to December 31, 2020  
Revised September 30, 2020

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