

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ALS OIL & LUBRICANTS (TRIBOLOGY) 3319 West Earll Drive Phoenix, AZ 85017

Madison Dawn Phone: 602-253-6515

CHEMICAL

Valid To: October 31, 2026 Certificate Number: 5681.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on <u>Lubricants and Oils</u>:

<u>Test</u> :	Test Method(s):
Acid Number by Potentiometric Titration	ASTM D664 (Modified); ALS SOP 6003
Base Number by Potentiometric Titration	ASTM D4739 (Modified); ALS SOP 6004
FTIR (general setup and use) Oxidation Sulphation Nitration Soot	ASTM D7418, E2412 ASTM D7414, E2412 ASTM D7415, E2412 ASTM E2412 ASTM D7844, E2412
Fuel Dilution by Gas Chromatography	ASTM D7593
Particle Count by Light Extinction	ASTM D7647
Particle Count Coding	ISO 4406
Viscosity, Kinematic	ASTM D445 (Modified); ALS SOP 5011
Water by Karl Fischer, Coulometric Titration	ASTM D6304B
Water by Karl Fischer Oven, Volumetric Titration	ASTM E203 (Modified); ALS SOP 6001
Wear, Additive, and Contaminant Metals by ICP/OES (Al, Sb, Ba, B, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Mo, Ni, P, K, Si, Ag, Na, Sn, Ti, V, Zn)	ASTM D5185 (Modified); ALS SOP 3006

(A2LA Cert. No. 5681.03) Revised 09/04/2024

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Accredited Laboratory

A2LA has accredited

ALS OIL & LUBRICANTS (TRIBOLOGY)

Phoenix, AZ

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 20th day of August 2024.

Mr. Trace McInturff, Vice President, Accreditation Services

For the Accreditation Council

Certificate Number 5681.03

Valid to October 31, 2026

Revised September 4, 2024