



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ALS TRIBOLOGY
935 Sunshine Road
Kansas City, KS 66115
Andi Carrel Phone: 913-281-9881

CHEMICAL

Valid To: October 31, 2020

Certificate Number: 5681.02

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

<u>Test:</u>	<u>Test Method(s):</u>
Acid Number by Potentionmetric Titration	ASTM D664 (Modified); ALS SOP 6003
Base Number by Potentionmetric Titration	ASTM D4739 (Modified); ALS SOP 6004
Total Base Number (Perchloric acid)	ASTM D2896 (Modified); KC SOP 036
Wear, Additive, and Contaminant metals by ICP/OES	ASTM D5185 (Modified); ALS SOP 3006
FTIR – Oxidation, Nitration, Soot and Sulphation	ASTM D7414, D7415, D7418, D7624, D7844; ALS SOP 2005
Particle Count by Light Extinction	ASTM D7645 (Modified); ALS SOP 5003; ISO 4406
Viscosity Index	ASTM D2270
Viscosity, Kinematic (TriVisc)	ASTM D445; (Modified); ALS SOP 5011
Water by Karl Fischer Oven, Volumetric Titration	ASTM E203 (Modified); ALS SOP 6001
Water by Hot Plate (Crackle)	ALS SOP 5015



Accredited Laboratory

A2LA has accredited

ALS TRIBOLOGY

Kansas City, KS

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 27th day of November 2019.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5681.02
Valid to October 31, 2020

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