



# CERTIFICATE OF ACCREDITATION

## ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

**ALS Tribology**  
**6180 Halle Drive, Suite D**  
**Valley View OH 44125**

has been assessed by ANAB  
and meets the requirements of international standard

**ISO/IEC 17025:2005**

while demonstrating technical competence in the field of

**TESTING**

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-2255

Certificate Number



ANAB Approval

Certificate Valid: 06/15/2018-06/27/2020  
Version No. 002 Issued: 06/15/2018



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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).

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**ALS Tribology**  
 6180 Halle Drive, Suite D  
 Valley View, OH 44125  
 Andrew DePompei  
 216-674-4600

**TESTING**

Valid to: **June 27, 2020**

Certificate Number: **L2255**

**Chemical**

<b>Specific Tests and/or Properties Measured</b>	<b>Specification, Standard, Method, or Test Technique</b>	<b>Items, Materials or Product Tested</b>	<b>Key Equipment or Technology</b>
Acid Number by Colorimetric Titration	ASTM D974	Lubricants/Oils	Colorimetric Titration
Acid Number by Potentiometric Titration	ASTM D664 Mod	Lubricants/Oils	Potentiometric Titration
Base Number by Potentiometric Titration	ASTM D4739 Mod	Lubricants/Oils	Potentiometric Titration
Fuel Dilution by Gas Chromatography	ASTM D7593	Lubricants/Oils	Gas Chromatography
Nitration, Oxidation, Sulphation and Soot by FTIR	ASTM D7414 ASTM D7415 ASTM D7418 ASTM D7624 ASTM D7844 ALS SOP 2005	Lubricants/Oils	FTIR
Particle Count by Light Extinction	ASTM D7647 Mod ISO 4406	Lubricants/Oils	Liquid Automatic Particle Counter
Viscosity, Houillon	ASTM D7279	Lubricants/Oils	Viscometer
Water by Hot Plate (Crackle)	ALS SOP 5015	Lubricants/Oils	Hot plate
Water by Karl Fischer Oven, Volumetric Titration	ASTMD E203 Mod ALS SOP 6001	Lubricants/Oils	Volumetric Titration

**Chemical**

<b>Specific Tests and/or Properties Measured</b>	<b>Specification, Standard, Method, or Test Technique</b>	<b>Items, Materials or Product Tested</b>	<b>Key Equipment or Technology</b>
Water by Karl Fischer Oven, Coulometric Titration	ASTM D6304C	Lubricants/Oils	Coulometric Titration
Wear, Additive, and Contaminant Metals by ICP / OES	ASTM D5185 Mod	Lubricants/Oils	ICP/OES
API Gravity by Hydrometer	ASTM D287 ASTM D1298	Fuels	Hydrometer
Bottom Sediment and Water by Centrifugation	ASTM D2709	Fuels	Centrifuge
Calculated Cetane Index (CCI) Four Variable	ASTM D4737	Fuels	
Cloud Point	ASTM D2500	Fuels	
Cold Filter Plug Point	ASTM D6371	Fuels	
Distillation	ASTM D7345	Fuels	
Pour Point	ASTM D97	Fuels	
Sulfur by EDXRF (including ULSD)	ASTM D4294	Fuels	X-Ray
Anions by Ion Chromatography (IC)	ASTM D5827	Coolants	Ion Chromatography
Freeze Point	ASTM D3321	Coolants	Refractometer
Metals by ICP	ASTM D6130A	Coolants	
pH, Potentiometric	ASTM D1287	Coolants	
Reserve Alkalinity	ASTM D1121	Coolants	

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. L2255



\_\_\_\_\_  
Vice President