

# AMALIE

Better than it has to be<sup>®</sup>  
Since 1903



## XLO<sup>®</sup> Ultimate

**SYNTHETIC**  
BLEND  
FORTIFIED WITH  
**MOLYBDENUM**

# SAE 20W-50

## MOTOR OIL

API: CK-4, CJ-4, CI-4, CI-4+, CH-4/SN

### BENEFITS:

- » High Soot Handling
- » Excellent Protection for Metal Components from Rust, Corrosion and Wear
- » Exceptional Oil Consumption Control
- » Shear Stable Formulation
- » One Oil for Mixed Fleets
- » Superior Oxidation Stability
- » Lasting TBN Retention
- » Improved Sludge Control

AMALIE ALAS+ (AMALIE Lubricant Analysis System) is AMALIE's used oil analysis program designed exclusively for AMALIE XLO and AMALIE XLO Ultimate customers. It allows them to get an inside look at what is going on in their engine. ALAS+ measures wear metals, contaminants, viscosity and other used oil characteristics to help prevent component failure, determine optimum drain intervals and help to reduce fuel costs. ALAS+ is a comprehensive analysis program using the most modern laboratory equipment available, that provides valuable information about your engine's condition every time the oil is changed for the life of the equipment. ALAS+ supplies clear concise analytical reports in a timely fashion that include the necessary data needed to help you successfully manage your highly expensive equipment investment.



For Diesel and Gasoline Engines

MADE IN U.S.A.



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*Ultimate*  
**SYNTHETIC BLEND**  
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**AMALIE XLO Ultimate Synthetic Blend Engine Oil 20W-50** is a premium high performance diesel engine oil utilizing the latest in engine oil additive technology to offer the ultimate protection of your engine. Designed to meet or exceed the latest OEM and API CK-4 requirements, it is also backwards compatible to previous OEM and API specifications such as CJ-4, CI-4, CI-4+, and CH-4. **AMALIE XLO Ultimate Synthetic Blend Engine Oil 20W-50** is also recommended for API SN for use in gasoline engines and is an excellent choice for operators with mixed fleets. This oil is specially designed to protect EGR/Low-Emission Diesel Engines while maximizing the durability of Diesel Particulate Filters (DPF's).

**AMALIE XLO Ultimate Synthetic Blend Engine Oil 20W-50** is recommended for use in a wide range of heavy-duty applications and operating environments found on-and off-highway, including engines operating under heavy loads. It is formulated for extended service/extended drain when operated under typical operating conditions. **AMALIE XLO Ultimate Synthetic Blend Engine Oil 20W-50** offers improved TBN retention, lower oil consumption, greater wear protection, oxidation stability, excellent shear stability, and reduced high temperature deposits.

Always consult your vehicle's owner's manual when selecting the appropriate viscosity and service grade.

## TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Viscosity Grade.....	20W-50
Kinematic Viscosity @100°C, cSt.....	18.0
Kinematic Viscosity @40°C, cSt.....	160.0
Viscosity Index.....	125
Flash Point, °C (°F).....	229 (444)
Pour Point, °C (°F).....	-27 (-16.6)
Density, S.G.....	0.884
Sulfated Ash, Wt%.....	0.95
TBN, mgKOH/g.....	10.0

Typical values are listed. Variations not affecting the performance of this fluid may occur during production; however, these variations will not fall outside of set specification parameters.

Please consult AMALIE Technical Services or your local representative for a full listing of applications.

Technical Services: • (800) 368-1264 • techservices@amalie.com

## XLO ULTIMATE SYNTHETIC BLEND

VISCOSITY	PACK SIZE	PART #
20W-50	4-1 Gallon	160-79197-36
	5 Gallon Pail	160-79194-25

Always refer to your vehicles operating manual to select the correct grade of oil for your engine. The data presented herein are believed to be accurate; however, Amalie Oil Company shall not be liable for its content and makes no warranty with respect thereto.

## Health and Safety

Safety Data Sheets (SDS) are available from your sales representative or at AMALIE.com.

## APPLICATION CHART

SPECIFICATIONS	XLO Ultimate 20W-50
ACEA	
E9, E7	✓
Allison	
TES 439	✓
API	
CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4	✓
SN, SM, SL, SJ	✓
Caterpillar	
ECF-3, ECF-2	✓
Cummins	
CES 20086, CES 20081	✓
Daimler (MB)	
MB 228.31	✓
Detroit Diesel	
DFS 93K222, 93K218	✓
Deutz	
DQC III-10 LA	✓
Ford	
WSS M2C171-F1	✓
Global	
DHD-1	✓
JASO	
DH-2, DH-1	✓
Mack	
EOS-4.5, EO-O Premium Plus, EO-N	✓
MAN	
M 3575	✓
Mil-PRF	
2104 Rev. H	✓
MTU	
2.1	✓
Navistar	
TSI-99-12	✓
Renault	
RLD-4, RLD-3	✓
Volvo	
VDS-4.5, VDS-4, VDS 3	✓