



XLO Heavy Duty Fleet Engine Oil 20W-50

(September 2021 Edition)

AMALIE XLO Heavy Duty Fleet Engine Oil 20W-50 is formulated with high quality base stocks and an improved additive system. This latest technology additive system imparts improved anti-wear, corrosion protection, oxidation inhibition, detergency, and de-foaming ability. Rigorous laboratory and field testing have proven that **AMALIE XLO Heavy Duty Fleet Engine Oil 20W-50** is up to the task of protecting your engine; helping your engine operate within the new emission and pollution requirements as well as meeting or exceeding the OEM requirements. It will deliver superior long-lasting protection for both turbocharged and naturally aspirated diesel and gasoline engines, including those engines that have exhaust gas recirculation (EGR) systems. It is formulated for extended service/extended drain when operated under typical operating conditions.

AMALIE XLO Heavy Duty Fleet Engine Oil 20W-50 will meet or exceed the CI-4/SL API Service Classifications as well as the CH-4, CG-4, CF-4, CF-2, CF and CD API Service Classifications. **AMALIE XLO Heavy Duty Fleet Engine Oils** are recommended for use wherever MIL L 2104-G and MIL L 46152-E are recommended; or wherever the following European approval standards are specified: E7, E6, E5, E3, E2 and E1.

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

Benefits

- High Soot Handling
- Improved Sludge Control
- Excellent Protection for Metal Components from Rust, Corrosion, and Wear
- Superior Protection Across a Wide Temperature Operating Range
- Shear Stable Formulation

Typical Physical and Chemical Properties

Viscosity Grade.....	SAE 20W-50
Kinematic Viscosity @100°C, cSt.....	20.0
Kinematic Viscosity @40°C, cSt.....	180
Viscosity Index.....	130
Cold Cranking Viscosity, cP @ (-15°C).....	5500
Flash Point, °C (°F).....	230 (446)
Pour Point, °C (°F).....	-21 (-5)
HT/HS Viscosity, cP.....	5.0
TBN, mgKOH/gram.....	10.5
Noack Volatility, %weight loss.....	8.0
Sulfated Ash, Mass %.....	1.3

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.

Application Chart on Page 2.

XLO Heavy Duty Fleet Engine Oil 20W-50**Performance Application Chart***

SPECIFICATIONS	XLO Fleet HD 20W-50
API:	
CI-4,	√
CH-4, CG-4, CF-4 and Previous	√
SL and Previous	√
Allison	
C-4, C-3	√
Mil-PRF	
2104H	√
Caterpillar	
ECF-2, ECF-1	√
CAT TO-2 (Exceeds API CD Performance)	√
Mack	
EO-M Plus, EO-N	√
Cummins	
CES 20078	√
JASO	
DH-1	√
GB	
11122-2006 CI-4	√
Global	
DHD-1	√
Navistar	
TSI-99-12-06	√
Detroit Diesel	
93K215	√
7SE270	√
Daimler (MB)	
228.3	√
ACEA	
E7, E5	√
A3 / B4	√
Volvo	
VDS-2	√
Renault	
RLD-2	√
MAN	
3275	√
MTU	
Type II	√

*Suitable for use applications.