



SUPER LIFE® XLD 12000 **PREMIUM HEAVY DUTY DIESEL ENGINE OILS**

SUPER LIFE® XLD 12000 Products are designed for the new EPA 2007 – compliant engines to meet the increased demands of new lower-emission diesel engines equipped with Exhaust Gas Recirculation (EGR) and diesel particulate filters (DPFs) with or without diesel oxidation catalysts (DOCs). They provide excellent quality in on- and off- highway service applications and help maximize engine durability.

They are also suitable for use in engines powered by both ultra and low sulfur diesel.

SUPER LIFE® XLD 12000 - Premium Heavy duty Diesel Engine oils are formulated with premium base oils and the latest additive technology to protect modern heavy duty diesel engines.

APPLICATIONS:

SUPER LIFE® XLD 12000 are recommended for new advanced diesel powered engines in trucks, marine industries, heavy duty construction equipments, mining equipments, oil fuel engines, farm vehicles, passenger cars, etc., operating under severe service, subjected to wide variations in climate conditions, in all types of on-road and off- road service. They are also recommended for gasoline engines in pick- up trucks, sport- utility vehicles, and mixed fleets.

SUPER LIFE® XLD 12000 meet the performance requirements of the engine manufactures in North America, Europe, Japan: Caterpillar, Cummins, Detroit Diesel, Mack, Navistar, Mercedes, Volvo, Komatsu, International, Ford, Chrysler, GM, BMW, Audi, Volkswagen, Peugeot , Fiat ,etc.

API: CJ-4/SM , CI-4 Plus/SL , CI-4/SL

CH-4, CG-4,CF-2 ,CF,CF-4/SJ/SH

ACEA : E3 / E5/E6/E7-04 Issue2(2007)/ E9-08(2008)

JASO DH-2

Caterpillar ECF-1-a , ECF-2,ECF-3 , TO-2

MACK EO-O Premium Plus 07 , EOO-06, E0-M & E0-M plus

Volvo VDS-4 ,VDS-3, VDS-2

DETROIT DIESEL Power Guard 93K214/218 (15W40 only)

CUMMINS CES 20071/20072/20076/20077/20078/20081

MERCEDES BENZ 228.3/228.5

KOMATSU HTT/MCT

MTU Type 2.1

DDC 7 SE270 & DPC close crankcase/marine, DDC PGOS93K218

MAN 3275/3277/3477/3575

RENAULT TRUCK RLD-3

DEUTZ DQC III-05

VW 505.01/502.00/504.00/507.00

SCANIA UHPD , LDF-2

DAF HP-1/HP-2

IVECO T2 E7

Navistar

DHD-1

BENEFITS:

- Prevent premature DPF plugging and shortened maintenance intervals
- Minimize piston and combustion chamber deposits.
- Fight sludge and varnish.
- Excellent protection against engine wear due to soot.
- Fuel economy, oil economy
- Maintain oil film under conditions of high temperature and high stress. Protect moving parts from friction, wear and engine destroying metal-to-metal contact.
- Excellent oxidation, foam, corrosion inhibition
- Provide faster ,safe starts during extreme low temperatures and increase thermal and oxidation stability at extreme high temperatures.
- Extend engine life

TYPICAL CHARACTERISTICS

Test	Method	Typical Results				
		10W-30	10W-40	15W-40	20W-50	25W-60
SAE Viscosity Grade	SAE J300	10W-30	10W-40	15W-40	20W-50	25W-60
API Gravity	ASTM D287	30.21	29.30	28.38	26.95	26.07
Specific gravity @ 15.6°C (60°F)	ASTM D1298	0.875	0.880	0.885	0.893	0.898
Viscosity @ 40°C cSt @ 100°C cSt	ASTM D445	70.5 10.8	103 14.5	117.0 15.0	175 19.8	245 25.5
Viscosity index	ASTM D2270	143	145	132	131	133
Flash Point, °C (°F)	ASTM D92	223 (433.4)	223 (433.4)	224 (435)	230 (446)	235 (455)
Pour Point , °C (°F)	ASTM D97	-36 (-33)	-36 (-33)	-36 (-33)	-25 (-13)	-25 (-13)
Total Base Number, mgKOH/g	ASTM D2896	10	10	10	10	10
HTHS Viscosity @150°C ,cP	ASTM D4683	3.15	4.20	4.24	4.30	4.40

The above characteristics are average values based on recent production. Minor variations, which do not affect product performance, are to be expected in normal manufacture.

WARNING:

Continuous contact with used motor oil has caused skin cancer in animal tests. Avoid prolonged contact. Thoroughly wash exposed areas with soap and water. Keep out of reach of children. Don't pollute. Conserve resources. Return used oil and container to collection centers

Reference MSDS Number 12021 database on our website at www.amtecol.com