

Omega 643

DESCRIPTION:

Omega 643 is a sophisticated diesel engine oil designed for long-term and heavy-duty service when utilizing high sulphur content diesel fuels. It contains a wide variety of essential inhibitors and resisters which can reduce shock and temperature fluctuations and form a powerful and protective "liquid wedge" between wear-prone parts.

UNIQUE CHARACTERISTICS:

Omega 643 is different from ordinary diesel oils since it is made from quality paraffinic base stocks. Omega 643 is therefore considered by petroleum engineers all over the world, as the finest engine oil that money can buy! In contrast, ordinary diesel engine oils are made from Naphthenic base stocks which are known to absorb oxygen, thereby promoting oil oxidation and, in turn, unstable viscometrics, often leading to the oil "thickening" excessively or "thinning" inappropriately to service conditions.

TURBOCHARGED ENGINES:

Most ordinary lubricants cannot handle the scorching temperatures encountered in turbocharged diesel engines. These high output, "workhorse" engines need the sort of protection that only Omega 643 can provide.

Omega 643 protection means consistent high power output, long-term operational stability, resistance to higher temperature conditions, resistance against severe atmospheric conditions and the provision - by Omega 643 -of cooler operating temperatures with markedly less tendencies toward oil breakdown and subsequent severe (and expensive) engine damage.

Omega 643 has been developed for use under the toughest operating conditions -from frigid to scorching ambient temperature conditions, in stop and go or highway type driving, and even under the most difficult non-stop, high load situations where engine reliability is essential.

Exceeds the Most Rigid Performance Requirements:

Including:

MB 228.0	MB 228.2
MAN 270	Volkswagen 502.00
MTU Type 2	Scania LD
Mack EOK-2	Allison C4
US MIL-L-46152E	US MIL-L-2104E
Caterpillar TO-2	
A-A-52306 (CID)	

Meets Or Exceeds The Requirements Of Every Manufacturer of Vehicles:

Including:

Fiat	Chrysler
Volvo	Toyota
Mazda	Nissan
Leyland	Ford
International Harvester	GM-Detroit

TYPICAL DATA:

TEST	ASTM	
	TEST METHOD	SAE 40
Appearance	Visual	Amber
Density, Kg/L @ 15°C	D-1298	0.902
Viscosity, cSt @ 40°C	D-445	155
	D-445	15.4
Viscosity Index	D-2270	101
Flash Point, COC, °C (°F)	D-92	251(482)
Fire Point, COC, °C (°F)	D-92	270(518)
Pour Point, °C (°F)	D-97	-21(-6)
Total Base Number, mg KOH/g	D-2896	10.3
Foaming Characteristics - All Sequences, After Settling	D-892	Nil
Carbon Residue, Conradson, % Mass*	D-524	0.08
Ash, Sulphated, % Mass	D-874	1.35
Zinc, % Mass	AA	0.120
Phosphorus, % Mass	D-1091	0.109

* In excess of ash content

Service Classification:

API: CF, CF-2, SJ
ZF TE-ML 04B

While Omega 643 meets the performance requirements of GM, Detroit Diesel

Allison (DDA) does not recommend the use of multigrade lubricants BUT long-term engine performance testing indicates that Omega 643 will be an exception for GM-Detroit 2-Stroke Diesels -particularly those used for sustained highway (freeway, inter-state, autobahn, motorway, autostrada, etc) type operation.

The special, select Omega Megalite supplements minimize such problems as sludge, varnish, ring sticking, piston & valve deposits, oxidation, corrosion and filter clogging problems.

E.g. Omega 643 has been tested to provide a 40,000 Km (600-hour or 6-month) oil change interval in Mack ESI engines.