Orelube®

technical information

OL SYNTHETIC GEAR OILS

100% SYNTHETIC EP GEAR OILS

Description

Orelube OL Synthetic Gear Oils are formulated using synthetic hydrocarbon and ester base fluids providing superior performance under heavy load conditions and wide temperature ranges. They provide substantial reductions in friction and power consumption and lower operating temperatures.

OL Synthetic Gear Oils possess high viscosity indices for lower viscosity at low temperatures and higher viscosity at high temperatures. They resist viscosity loss as a result of mechanical shearing, even in heavily-loaded gear applications.

OL Synthetic Gear Oils are extremely stable at elevated temperatures resisting the oxidation and thermal degradation that occurs in conventional mineral oils. They have low pour points resulting in exceptional low temperature fluidity and have excellent demulsibility characteristics separating readily from water.

OL Synthetic Gear Oils provide superior protection and extended drain intervals in all types of applications. They are blended with special additives to enhance oxidation stability, load carrying ability and rust and corrosion protection.

Applications

OL Synthetic Gear Oils are recommended for industrial bearings and gears operating over a wide temperature range. They are outstanding where high oil temperatures result in increased maintenance costs for parts replacement, cleaning and oil change-over. They provide superior lubrication of bearings and gears in severe low temperature applications.

OL Synthetic Gear Oils meet U.S.Steel 224, AGMA 250.04 and AGMA 251.02 specifications. They are recommended for all types of enclosed gear drives especially in gear sets operating under heavy loads or slow speeds. Selection of the correct lubricant viscosity is based on speed, load, operating temperature and gear geometry.

OL Synthetic Gear Oils *extend equipment life, reduce maintenance costs, decrease power consumption & increase oil drain intervals for the most efficient way to operate a gear box.*

OL Synthetic Gear Oils are compatible with conventional petroleum oils and the following seal materials: Fluorocarbon, Polyacrylate, Polyurethane, Ether, Silicone, Ethylene/Acrylic, Polysulfide, Buna N and Chlorinated Polyethylene.

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BOELUBE®

Typical Properties	OL150	OL220	OL320	OL460	OL680
ISO Grade	150	220	320	460	680
AGMA #	4EP	5EP	6EP	7EP	8EP
Viscosity, ASTM D-445					
cSt @ 40 C	140.4	210.5	311.3	445.7	652.1
cSt @ 100 C	19.2	26.4	34.6	44.2	62.2
Viscosity Index	156	160	156	154	165
Flash Point, F	450	460	470	480	490
Pour Point, F	-60	-50	-40	-30	-20
	-55 C°	-45	-40		
Copper Corrosion, ASTM D-130 3 hrs @ 100 C	1a	1a	1a	1a	1a
Rust Test, ASTM D-665 A and B	Pass	Pass	Pass	Pass	Pass
4-Ball EP Test, ASTM D-2783 Weld load, kg	250	250	250	250	250
4-Ball Wear Test, ASTM D-4172 scar diameter, mm	0.30	0.30	0.30	0.30	0.30
Foam Test, ASTM D-892 Seq. 1, 2, and 3, ml	0/0	0/0	0/0	0/0	0/0
FZG Test, 12 stages	Pass	Pass	Pass	Pass	Pass