

ExxonMobil 527 Mobil SHC 500 Series

Category : Fluid , Lubricant

Material Notes:

Mobil SHC 500 Series oils are supreme performance hydraulic oils formulated from synthesised, wax-free hydrocarbon base fluids combined with a carefully engineered super-stabilised additive system. They are exceptionally high quality, wide-temperature, shear-stable hydraulic oils with controlled low-temperature pumpability properties and maximised anti-wear protection for high-pressure vane, piston and gear pumps. The products exhibit very high viscosity indexes contributing to their excellent low and high temperature performance making them an excellent choice for equipment that is subjected to a wide range of start-up and operating temperatures. The Mobil SHC 500 Series oils provide outstanding shear stability allowing their use in high-pressure, high-temperature operating environments for extended periods of time without the loss of critical lubrication characteristics. The Mobil SHC 500 Series oils provide long oil/filter life and optimum equipment protection reducing both maintenance and product disposal costs. They were developed in conjunction with the major OEMs to meet the stringent requirements of severe hydraulic systems using high pressure, high output pumps as well as handling the critical requirements of other hydraulic system components such as close clearance servo-valves and the high accuracy numerically controlled (NC) machine tools. These products meet the most rigorous performance requirements of a wide range of hydraulic system and component manufacturers, using various multi-metallurgy designs, ensuring a single product with exceptional performance characteristics in a wide range of equipment. They are designed to work with systems operating under severe conditions where high levels of anti-wear and film strength protection are needed, yet they are formulated to work where non-anti-wear hydraulic oils are generally recommended. Hydraulic systems critical to deposit build-up such as sophisticated Numerically Controlled (NC) machines, particularly where close clearance servo-valves are used; Systems employing multi-metal component designs; High pressure vane, piston and gear pumps; Systems where cold start-up and / or very high operating temperatures are typical; Where small amounts of water are unavoidable; In systems containing gears and bearings; Systems requiring a high degree of load-carrying capability and anti-wear protection; Applications where thin oil-film corrosion protection is an asset such as in systems containing moisture

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http://www.lookpolymers.com/polymer_ExxonMobil-527-Mobil-SHC-500-Series.php

Physical Properties	Metric	English	Comments
Density	0.8576 g/cc @Temperature 15.0 °C	0.03098 lb/in ³ @Temperature 59.0 °F	ASTM D4052
Brookfield Viscosity	4500 cP @Temperature -18.0 °C	4500 cP @Temperature -0.400 °F	ASTM D2983
Viscosity Measurement	160	160	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	100 cSt	100 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	15.94 cSt	15.94 cSt	ASTM D445

Thermal Properties	Metric	English	Comments
Pour Point	-46.0 °C	-50.8 °F	ASTM D97

Thermal Properties	Metric	English	Comments
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Descriptive Properties	Value	Comments
Copper Strip Corrosion	1B	3 hrs @ 100°C
Foam Sequence I, ASTM D896	50/0	
Foam Sequence II, ASTM D893	50/0	
Foam Sequence III, ASTM D893	50/0	
FZG Gear Test, DIN 51534, Fail Stage	II	
Rust Prevention, Synthetic Sea Water	pass	ASTM D665B

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China