

ExxonMobil 46 Mobil DTE Excel Series

Category : Fluid , Lubricant

Material Notes:

Mobil DTE Excel Series oils are supreme performance hydraulic oils developed for use in high-speed, high-pressure piston, vane and gear pumps. They are formulated from high quality base stocks and specially selected super-stabilised additives. Their advanced technology ashless anti-wear additive system was developed to give exceptional corrosion protection for copper-based alloys in severe hydraulic applications such as high-pressure axial piston pumps. This unique additive system also gives the Mobil DTE Excel Series excellent compatibility with coolants used in metal working applications. The Mobil DTE Excel Series oils exhibit excellent oxidation and thermal stability properties which results in extended oil and filter life while providing 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. They are designed to work with systems operating under moderate to 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 designs in pumps and other system components; Applications where cross-contamination of hydraulic fluids and coolants can occur; High pressure vane, piston and gear pumps; Systems where 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-46-Mobil-DTE-Excel-Series.php

Physical Properties	Metric	English	Comments
Density	0.8765 g/cc @Temperature 15.0 °C	0.03167 lb/in ³ @Temperature 59.0 °F	ASTM D4052
Viscosity Measurement	97	97	Index; ASTM D2270

Thermal Properties	Metric	English	Comments
Pour Point	-33.0 °C	-27.4 °F	ASTM D97
Flash Point	226 °C	439 °F	ASTM D92

Descriptive Properties	Value	Comments
Copper Strip Corrosion	1A	3 hrs @ 100°C
Foam Sequence I, ASTM D903	20/0	
Foam Sequence II, ASTM D893	20/0	
Foam Sequence III, ASTM D893	20/0	

Descriptive Properties	Value	Comments
FTO Gear Test, DIN 51534, Fail Stage	12	
Rust Prevention, Synthetic Sea Water	pass	ASTM D665B

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