

ExxonMobil 18M Mobil DTE 10M Series

Category : Fluid , Lubricant

Material Notes:

Mobil DTE 10M Series oils are supreme performance anti-wear hydraulic oils engineered for wide temperature range applications. They exhibit optimum flow characteristics at sub-zero temperatures and are resistant to shearing and viscosity loss so that system efficiency is maintained and internal pump leakage is minimised at high operating temperatures and pressures. These high quality hydraulic oils with controlled low-temperature flow properties also provide maximised anti-wear protection for high pressure vane, piston and gear pumps. They provide long oil/filter life and optimum equipment protection reducing both maintenance costs 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. Their multi-metal compatibility properties allow their use with system components employing various alloys in their designs. The DTE 10M Series Oils are formulated with high quality base oils and a carefully balanced super-stabilised additive system that helps neutralise the formation of corrosive materials. 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 where cold start-up and high operating temperatures are typical; Where small amounts of water are unavoidable and this water could damage components; 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 systems where small amounts of water are unavoidable; Machines employing a wide range of components using various metallurgy

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Physical Properties	Metric	English	Comments
Density	0.888 g/cc @Temperature 15.0 °C	0.0321 lb/in ³ @Temperature 59.0 °F	ASTM D4052
Viscosity Measurement	0.50	0.50	Shear Stability, % Kinematic Viscosity Loss; CED L-14-A-93
	124	124	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	100 cSt	100 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	12.84 cSt	12.84 cSt	ASTM D445

Thermal Properties	Metric	English	Comments
Pour Point	-37.0 °C	-34.6 °F	ASTM D97
Flash Point	228 °C	442 °F	ASTM D92

Electrical Properties	Metric	English	Comments
Dielectric Strength	45.0 kV/mm	1140 kV/in	ASTM D877

Descriptive Properties	Value	Comments
Copper Strip Corrosion	1B	3 hrs @ 100°C
Foam Sequence I, ASTM D914	20/0	
Foam Sequence II, ASTM D893	20/0	
Foam Sequence III, ASTM D893	20/0	
FZG Gear Test, DIN 51534, Fail Stage	11	
Rust Prevention, Synthetic Sea Water	pass	ASTM D665B

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