Mobil

Mobil DTE™ Hydraulic Zinc Free Series

Mobil Industrial , Greece

Hydraulic Oil

Product Description

Mobil DTE™ Hydraulic Zinc Free Series oils are superior hydraulic oils specifically designed to meet the needs of modern, high pressure, industrial and mobile equipment hydraulic systems. They are formulated from high quality base stocks and specially selected zinc free additives. This unique additive system was developed to give exceptional protection due to excellent anti-wear performance in severe hydraulic applications.

The Mobil DTE™ Hydraulic Zinc Free oils exhibit excellent oxidation and thermal stability properties which can help to provide extended oil and filter life, as well as optimum equipment protection, thereby reducing both maintenance and product disposal costs. 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.

Features and Benefits

The Mobil DTE™ Hydraulic Zinc Free hydraulic oils exhibit excellent oxidation resistance and thermal stability characteristics that can lead to extension of oil and filter change intervals and help to provide clean systems and trouble-free operation. Their high level of anti-wear properties and excellent film strength characteristics can lead to equipment performance that can not only result in fewer breakdowns, but also can help to enhance productivity. Their outstanding demulsibility permits the oils to work well in systems contaminated with small amounts of water, and readily separate large amounts of water.

Features	Advantages and Potential Benefits
Thermal and Oxidation Stability	Provides long oil and equipment life
Anti-wear Properties	Helps reduce wear and protects pumps and components for extended equipment life
Excellent Demulsibility Characteristics	Protects systems where small quantities of moisture are present
Multi Metal Compatibility	Helps ensure excellent performance and protection with a wide variety of component metallurgy
Meets a Wide Range of Equipment Requirements	Minimizes inventory requirements

Applications

- 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
- 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

Specifications and Approvals

This product has the following approvals:	MOBIL DTE HYDRAULIC ZINC FREE 22	MOBIL DTE HYDRAULIC ZINC FREE 32	MOBIL DTE HYDRAULIC ZINC FREE 46	MOBIL DTE HYDRAULIC ZINC FREE 68	MOBIL DTE HYDRAULIC ZINC FREE 100

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Bosch Rexroth Fluid Rating List 90245		X	X	X	
Denison HF-0		X	X	X	
Denison HF-1		X	X	X	
Denison HF-2		X	X	X	
Eaton E-FDGN-TB002-E		X	X	X	
Krauss-Maffei Hydraulic Oil			X		

This product is recommended for use in applications requiring:					
Fives Cincinnati P-68		X			
Fives Cincinnati P-69				X	
Fives Cincinnati P-70			X		

This product meets or exceeds the requirements of:					
ASTM D6158 (Class HMHP)	X	X	X	X	X
China GB 11118.1-2011, L-HM(General)	X	X	X	X	X
China GB 11118.1-2011, L-HM(HP)		X	X	X	X
DIN 51524-2:2017-06	X	X	X	X	X
ISO L-HM (ISO 11158:2023)	X	X	X	X	X
JCMAS HK VG32		X			
JCMAS HK VG46			X		

Properties and Specifications

Property	MOBIL DTE HYDRAULIC ZINC FREE 22	MOBIL DTE HYDRAULIC ZINC FREE 32	MOBIL DTE HYDRAULIC ZINC FREE 46	MOBIL DTE HYDRAULIC ZINC FREE 68	MOBIL DTE HYDRAULIC ZINC FREE 100
Grade	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100
Density @ 15.6 C, kg/l, ASTM D4052	0.859	0.857	0.864	0.871	0.866

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Flash Point, Cleveland Open Cup, °C, ASTM D92	208	224	232	242	270
Foam, Sequence I, Stability, ml, ASTM D892	0	0	0	0	0
Foam, Sequence I, Tendency, ml, ASTM D892	0	0	0	0	0
Foam, Sequence II, Stability, ml, ASTM D892	0	0	0	0	0
Foam, Sequence II, Tendency, ml, ASTM D892	0	0	0	0	0
Foam, Sequence III, Stability, ml, ASTM D892	0	0	0	0	0
Foam, Sequence III, Tendency, ml, ASTM D892	10	0	0	0	0
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	4.5	5.66	7.01	8.84	11.77
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	22.6	32.72	46.26	68.33	99.86
Rust Prevention, Procedure B, Rating, ASTM D665	PASS	PASS	PASS	PASS	PASS
Viscosity Index, ASTM D2270	115	112	108	102	107

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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ExxonMobil Lubricants & Specialties

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without

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