Mobil DTE™ 20 Ultra Series

Mobil Industrial , Finland

Hydraulic Oils

Product Description

Mobil DTE™ 20 Ultra Series oils are high performance anti-wear hydraulic oils with extended oil life capabilities and have demonstrated up to 2 times longer oil drain intervals versus similar competitive oils (*).

They meet the stringent requirements of hydraulic systems using high pressure, high output pumps as well as other hydraulic system components such as close clearance servo-valves and numerically controlled (NC) machine tools. The products exhibit outstanding oxidation and thermal stability allowing long oil life and minimized deposit formation in harsh conditions and with severe hydraulic systems using high pressure, high output pumps. The keep clean performance protects critical hydraulic system components from malfunction, such as tight tolerance servo and proportional valves found in many modern hydraulic systems.

These products met the most rigorous performance requirements of a wide range of hydraulic system and component manufacturers, allowing use of a single product with excellent performance characteristics.

(*) with a viscosity index around 100 and a zinc-based anti-wear system - meeting at least ISO 11158 (L-HM) and/or DIN 51524-2 (HLP type) requirements.

Features and Benefits

Features	Advantages and Potential Benefits
Outstanding Keep Clean Performance	Reduced system deposits and sludge to help protect equipment and extend equipment life, reduce maintenance costs and improve total system performance
Enhanced Anti-wear Performance	Meets or exceeds major pump manufacturer requirements, helps extend component life
Exceptional Thermal and Oxidation Stability	Helps reduce maintenance downtime and costs by contributing to system cleanliness and deposit reduction even under harsh operating conditions and high power density.
Enhanced Corrosion Protection	Helps ensure protection with a wide variety of component metallurgy
Controlled Demulsibility	Protects systems from small and large quantities of water and helps extend filter life
Quality Reserve	Maintains performance features even under severe service conditions and extended drain intervals

Applications

• Hydraulic systems critical to deposit build-up or where sludge and deposits form with conventional products

• Hydraulic systems requiring a high load-carrying capability and anti-wear protection, and when thin oil-film corrosion protection is an asset

• Where small amounts of water are unavoidable

• Systems containing gears and bearings

• Machines employing a wide range of components using various metallurgy

Specifications and Approvals

This product has the following approvals:	MOBIL DTE 21 ULTRA	MOBIL DTE 22 ULTRA	MOBIL DTE 24 ULTRA	MOBIL DTE 25 ULTRA	MOBIL DTE 26 ULTRA	MOBIL DTE 27 ULTRA
Arburg Hydraulic Fluid				X		
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	
FRAMO Hydraulic System				X		
HOCNF Norway-NEMS, Black			X	X	X	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	X
ISO L-HM (ISO 11158:2023)	X	X	X	X	X	X

Properties and Specifications

Property	MOBIL DTE 21 ULTRA	MOBIL DTE 22 ULTRA	MOBIL DTE 24 ULTRA	MOBIL DTE 25 ULTRA	MOBIL DTE 26 ULTRA	MOBIL DTE 27 ULTRA
Grade	ISO 10	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100

Property	MOBIL DTE 21 ULTRA	MOBIL DTE 22 ULTRA	MOBIL DTE 24 ULTRA	MOBIL DTE 25 ULTRA	MOBIL DTE 26 ULTRA	MOBIL DTE 27 ULTRA
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1A	1A	1A	1A	1A	1A
Density @ 15.6 C, kg/l, ASTM D4052	0.8373	0.8524	0.8596	0.8667	0.8743	0.8797
FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1	-	-	11	11	11	12
Flash Point, Cleveland Open Cup, °C, ASTM D92	174	234	231	238	252	278
Foam, Sequence I, Stability, ml, ASTM D892	0	0	0	0	0	0
Foam, Sequence I, Tendency, ml, ASTM D892	20	20	10	10	10	50
Foam, Sequence II, Stability, ml, ASTM D892	0	0	0	0	0	0
Foam, Sequence II, Tendency, ml, ASTM D892	10	10	10	10	20	30
Foam, Sequence III, Stability, ml, ASTM D892	0	0	0	0	0	0
Foam, Sequence III, Tendency, ml, ASTM D892	20	10	10	10	0	20
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	2.8	4.4	5.8	7.1	8.9	11.9
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	10.7	21.4	33.4	46.2	68.6	100.2
Pour Point, °C, ASTM D97	-45	-39	-36	-33	-30	-33
Rust Characteristics, Procedure B, ASTM D665	PASS	PASS	PASS	PASS	PASS	PASS
Viscosity Index, ASTM D2270	106	115	115	110	104	108

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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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 notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com
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