



Mobil DTE™ 20 Ultra Series

Mobil Industrial , United States

Hydraulic Oil



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 reduced deposit formation in harsh conditions and with severe hydraulic systems using high pressure, high output pumps. The keep clean performance helps protect 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 conditions |
| 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 24 ULTRA | MOBIL DTE 25 ULTRA | MOBIL DTE 26 ULTRA |
|---|--------------------|--------------------|--------------------|--------------------|
| BoschRexroth 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 |
| Fives Cincinnati P-68 | | X | | |
| HOCNF Norway-NEMS, Black | X | X | X | X |
| Husky | | | X | |

| This product is recommended for use in applications requiring: | MOBIL DTE 21 ULTRA | MOBIL DTE 24 ULTRA | MOBIL DTE 25 ULTRA | MOBIL DTE 26 ULTRA |
|--|--------------------|--------------------|--------------------|--------------------|
| Fives Cincinnati P-69 | | | | X |
| Fives Cincinnati P-70 | | | X | |

| This product meets or exceeds the requirements of: | MOBIL DTE 21 ULTRA | MOBIL DTE 24 ULTRA | MOBIL DTE 25 ULTRA | MOBIL DTE 26 ULTRA |
|--|--------------------|--------------------|--------------------|--------------------|
| ASTM D6158 (Class HMHP) | | X | X | X |
| China GB 11118.1-2011, L-HM(General) | | X | X | X |
| China GB 11118.1-2011, L-HM(HP) | | X | X | X |
| DIN 51524-2:2006-09 | X | X | X | X |
| ISO L-HM (ISO 11158:2009) | X | X | X | X |
| JCMAS HK VG32 | | X | | |
| JCMAS HK VG46 | | | X | |

Properties and Specifications

| Property | MOBIL DTE 21 ULTRA | MOBIL DTE 24 ULTRA | MOBIL DTE 25 ULTRA | MOBIL DTE 26 ULTRA |
|----------|--------------------|--------------------|--------------------|--------------------|
| Grade | ISO 10 | ISO 32 | ISO 46 | ISO 68 |

| Property | MOBIL ULTRA | DTE 21 | MOBIL ULTRA | DTE 24 | MOBIL ULTRA | DTE 25 | MOBIL ULTRA | DTE 26 |
|--|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|
| Air Release Time, 50 C, min, ASTM D3427 | | | | | | | | |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 1A | | 1A | | 1A | | 1A | |
| Density @ 15.6 C, kg/l, ASTM D4052 | 0.8373 | | 0.8596 | | 0.8667 | | 0.8743 | |
| Emulsion, Time to 3 mL Emulsion, 54 C, min, ASTM D1401 | 25 | | 20 | | 20 | | 20 | |
| FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1 | | | 11 | | 11 | | 11 | |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 174 | | 231 | | 238 | | 252 | |
| Foam, Sequence I, Stability, ml, ASTM D892 | 0 | | 0 | | 0 | | 0 | |
| Foam, Sequence I, Tendency, ml, ASTM D892 | 20 | | 10 | | 10 | | 10 | |
| Foam, Sequence II, Stability, ml, ASTM D892 | 0 | | 0 | | 0 | | 0 | |
| Foam, Sequence II, Tendency, ml, ASTM D892 | 10 | | 10 | | 10 | | 20 | |
| Foam, Sequence III, Stability, ml, ASTM D892 | 0 | | 0 | | 0 | | 0 | |
| Foam, Sequence III, Tendency, ml, ASTM D892 | 20 | | 10 | | 10 | | 0 | |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 2.8 | | 5.8 | | 7.1 | | 8.9 | |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 10.7 | | 33.4 | | 46.2 | | 68.6 | |
| Pour Point, °C, ASTM D97 | -45 | | -36 | | -33 | | -30 | |
| Rust Characteristics, Procedure B, ASTM D665 | Pass | | Pass | | Pass | | Pass | |
| Total Acid Number, mgKOH/g, ASTM D664 | 0.7 | | 0.7 | | 0.7 | | 0.7 | |
| Viscosity Index, ASTM D2270 | 106 | | 115 | | 110 | | 104 | |

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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