# Mobil DTE™ 20 Series

Mobil Industrial , Lithuania

Hydraulic Oils

## Product Description

Mobil DTE™ 20 Series oils are high performance anti-wear hydraulic 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.

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.

## Features and Benefits

- Excellent oxidation stability helps reduce maintenance downtime and costs by contributing to system cleanliness and deposit reduction, enable long oil and filter life
- Enhanced anti-wear and corrosion protection of system components using various metallurgy help extend component life and improve production capacity
- Controlled demulsibility protects systems from small and large quantities of water
- Keep clean properties reduce system deposits and sludge help protect equipment and extend equipment life, reduce maintenance costs and improve total system performance
- 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 22 | MOBIL DTE 24 | MOBIL DTE 25 | MOBIL DTE 26 | MOBIL DTE 27 |
|---|---|---|---|---|---|
| Denison HF-0 | | X | X | X | |
| Fives Cincinnati P-68 | | X | | | |
| HOCNF Norway-NEMS, Black | | X | X | X | X |
| Husky HS 207 | | | X | | |

| This product is recommended for use in applications requiring: | MOBIL DTE 22 | MOBIL DTE 24 | MOBIL DTE 25 | MOBIL DTE 26 | MOBIL DTE 27 |
|---|---|---|---|---|---|

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|---|---|---|---|---|---|
| Eaton I-286-S | | X | X | X | |
| Eaton M-2950-S | | X | X | X | |

| This product meets or exceeds the requirements of: | MOBIL DTE 22 | MOBIL DTE 24 | MOBIL DTE 25 | MOBIL DTE 26 | MOBIL DTE 27 |
|---|---|---|---|---|---|
| DIN 51524-2:2006-09 | X | X | X | X | |

Properties and Specifications

| Property | MOBIL DTE 21 | MOBIL DTE 22 | MOBIL DTE 24 | MOBIL DTE 25 | MOBIL DTE 26 | MOBIL DTE 27 | MOBIL DTE 28 |
|---|---|---|---|---|---|---|---|
| Grade | ISO 10 | ISO 22 | ISO 32 | ISO 46 | ISO 68 | ISO 100 | ISO 150 |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 1B | 1B | 1B | 1B | 1B | 1B | 1B |
| FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1 | | | 12 | 12 | 12 | 12 | 12 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 174 | 200 | 220 | 232 | 236 | 248 | 276 |
| Foam, Sequence I, Stability, ml, ASTM D892 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Foam, Sequence I, Tendency, ml, ASTM D892 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Foam, Sequence II, Stability, ml, ASTM D892 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Foam, Sequence II, Tendency, ml, ASTM D892 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Foam, Sequence III, Stability, ml, ASTM D892 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Foam, Sequence III, Tendency, ml, ASTM D892 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 2.7 | 4.5 | 5.3 | 6.7 | 8.5 | 10.9 | 14.3 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 10 | 21 | 31.5 | 44.2 | 71.2 | 95.3 | 142.8 |
| Pour Point, °C, ASTM D97 | -30 | -30 | -27 | -27 | -21 | -21 | -15 |
| Rust Characteristics, Procedure B, ASTM D665 | PASS | PASS | PASS | PASS | PASS | PASS | PASS |
| Viscosity Index, ASTM D2270 | 98 | 98 | 98 | 98 | 98 | 98 | 98 |

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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