



## Mobil DTE™ 20 Series

Mobil Industrial , Estonia

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 |
|---|--------------|--------------|--------------|--------------|
| Denison HF-0                              |              | X            | X            | X            |
| Husky HS 207                              |              |              | X            |              |

| This product is recommended for use in applications requiring: |  |   |   |   |
|--|--|---|---|---|
| Eaton I-286-S  |  | X | X | X |

| <b>This product is recommended for use in applications requiring:</b> |  |   |   |   |
|---|--|---|---|---|
| Eaton M-2950-S  |  | X | X | X |
| Fives Cincinnati P-68   |  | X |   |   |
| Fives Cincinnati P-69   |  |   |   | X |
| Fives Cincinnati P-70   |  |   | X |   |

| <b>This product meets or exceeds the requirements of:</b> |   |   |   |   |
|---|---|---|---|---|
| DIN 51524-2:2006-09                                       | X | X | X | X |

### Properties and Specifications

| <b>Property</b>  | <b>MOBIL DTE 21</b> | <b>MOBIL DTE 22</b> | <b>MOBIL DTE 24</b> | <b>MOBIL DTE 25</b> | <b>MOBIL DTE 26</b> | <b>MOBIL DTE 27</b> | <b>MOBIL DTE 28</b> |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Grade  | ISO VG 10           | ISO VG 22           | ISO VG 32           | ISO VG 46           | ISO VG 68           | ISO VG 100          | ISO VG 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, mm <sup>2</sup> /s, ASTM D445 | 2.7                 | 4.5                 | 5.3                 | 6.7                 | 8.5                 | 10.9                | 14.3                |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /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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