



Nuto™ H Series

Mobil Industrial , United States

Hydraulic Oils

Product Description

Nuto™ H Series oils are good quality anti-wear hydraulic oils intended for industrial and mobile service applications, subjected to moderate operating conditions and requiring anti-wear lubricants.

Their effective oxidation resistance and chemical stability support good oil life in moderate to severe applications.

Features and Benefits

- Good anti-wear performance helps reduce pump wear and prolonging pump life
- Corrosion protection helps reduce the effects of moisture on system components
- Filterability to prevent filter blockage even in the presence of water

Applications

- Systems using gear, vane, radial and axial piston pumps and those containing gears and bearings where mild anti-wear characteristics are required
- Where hydraulic oil contamination or leakage is unavoidable
- Where small amounts of water are unavoidable

Specifications and Approvals

| This product has the following approvals: | 32 | 46 | 68 | 100 | 150 |
|---|----|----|----|-----|-----|
| Denison HF-0 | X | X | X | | |
| Denison HF-1 | X | X | X | | |
| Denison HF-2 | X | X | X | | |

| This product meets or exceeds the requirements of: | 32 | 46 | 68 | 100 | 150 |
|--|----|----|----|-----|-----|
| Fives Cincinnati P-68 | X | | | | |
| ASTM D6158 (Class HM) | X | X | X | | |
| DIN 51524-2:2017-06 | X | X | X | X | |
| ISO L-HM (ISO 11158:2023) | X | X | X | X | X |
| Fives Cincinnati P-69 | | | X | | |
| Fives Cincinnati P-70 | | X | | | |

Properties and Specifications

| Property | 32 | 46 | 68 | 100 | 150 |
|--|-----------|-----------|-----------|------------|------------|
| Grade | 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 | 1A | 1A | 1A | 1A | 1A |
| Density @ 15 C, kg/l, ASTM D1298 | 0.872 | 0.876 | 0.882 | 0.884 | 0.887 |
| Emulsion, Time to 3 mL Emulsion, 54 C, min, ASTM D1401 | 15 | 15 | 20 | | |
| Emulsion, Time to 3 mL Emulsion, 82 C, min, ASTM D1401 | | | | 10 | 5 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 212 | 226 | 234 | 242 | 258 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 5.3 | 6.6 | 8.3 | 11.0 | 14.9 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 31.4 | 44.0 | 63.3 | 96.0 | 150 |
| Pour Point, °C, ASTM D97 | -24 | -24 | -18 | -18 | -18 |
| Viscosity Index, ASTM D2270 | 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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