



## Nuto™ H Series

Mobil Industrial , Niger

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 <sup>2</sup> /s, ASTM D445 | 5.3       | 6.6       | 8.3       | 11.0       | 14.9       |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /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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