HYDRAULIC OIL
32, 46, 68, 100, 150, 220

DESCRIPTION

High quality anti-wear hydraulic fluid formulated for use in high pressure stationery and mobile hydraulic systems. Incorporates zinc phosphate additive technology.

Not recommended for systems with silver plated components.

APPLICATION

- Wide range of industrial hydraulic equipment.
- Hydraulics on construction and mobile equipment.
- Hydraulic systems with gear, vane or piston pumps.
- Industrial circulating systems.
- Machine tools and enclosed gear systems.
- Plastic injection moulding.

BENEFITS

- Outstanding pump and equipment protection, even in very severe operating conditions.
- Extends oil and equipment service life by avoiding problems such as servo valve sticking.
- Prolongs oil change intervals.
- Reduces yellow metal corrosion by controlling oil stability.
- Prevents downtime by minimizing flow restrictions due to clogged filters and extends life equipment.
- Suitable for many other industrial applications.

SPECIFICATIONS

- DIN 51524 Part 2 (HLP) & Part 3 (HVLP)
- GM LS2
- ISO 11158 Categories HM and HV
- ASTM D 6158 Type HM and HV
- Afnor NF E 48-603 HM and HV
- US Steel 126 and 127
- Cincinnati P-68, P-69, P-70
- Denison HF-0, HF-1 and HF-2
- Eaton 694 for 35VQ25A (formerly M-2950 and I-286-S)

KEY PROPERTIES

<table>
<thead>
<tr>
<th>ISO Grade</th>
<th>32</th>
<th>46</th>
<th>68</th>
<th>100</th>
<th>150</th>
<th>220</th>
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</thead>
<tbody>
<tr>
<td>Air Release @ 50 °C; min</td>
<td>5.0</td>
<td>6.7</td>
<td>8.6</td>
<td>11.0</td>
<td>11.2</td>
<td>11.4</td>
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<tr>
<td>Viscosity @ 40 °C</td>
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<tr>
<td>Viscosity Cst @ 100 °C</td>
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<td>6.7</td>
<td>8.6</td>
<td>11.1</td>
<td>14.8</td>
<td>20.3</td>
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<tr>
<td>Viscosity Index</td>
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<td>98</td>
<td>97</td>
<td>96</td>
<td>95</td>
<td>95</td>
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<tr>
<td>Flash Point °C (Min)</td>
<td>210</td>
<td>220</td>
<td>226</td>
<td>240</td>
<td>254</td>
<td>262</td>
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<tr>
<td>Pour Point °C (Max)</td>
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<td>-30</td>
<td>-24</td>
<td>-22</td>
<td>-21</td>
<td>-18</td>
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HYDRAULIC UHVI 46 & 68
ZINC TYPE ANTI-WEAR HYDRAULIC FLUID

DESCRIPTION

Hydraulic UHVI 46 and 68 is premium High Viscosity index anti-wear hydraulic oil. It is blended from virgin paraffin base oils. It contains anti-wear, anti-rust and anti-foam additives to give excellent performance and wear protection. In addition it contains a viscosity index improver to lessen the impact of high operating temperatures. It is recommended for use in any circulating hydraulic system where zinc containing anti-wear hydraulic oil is called for especially those running at higher than normal temperatures.

Hydraulic UHVI 46 and 68 has the following features:

- Bosch Rex Roth
- Good corrosion protection
- Effective anti-wear properties
- Long equipment life
- Excellent oxidation resistance
- Excellent temperature/viscosity performance
- DIN 51524 Part III
- Denison HF-0, HF-1, HF-2
- Vickers M-2950 S (Mobile Systems) and I-286-S
- M-1286 S (Industrial Systems)
- Cincinnati Machine P68/69/70 Eaton Brochure 694 for 35VQ25A
- ASTM 6158 Type HM and HV
- AFNOR NF E 48-603 HM and HV
- Eaton
- US Steel

DIRECTIONS FOR USE

Hydraulic UHVI 46 and 68 may be used in any circulating hydraulic system, which calls for use of anti-wear hydraulic oil containing a zinc anti-wear additive. It is called for whenever the temperature of the system runs hotter than normal to ensure that loss of pressure does not occur due to viscosity drop. It should not be used in a system, which contains silver plated components.

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<td>Flash Point ◦ C220</td>
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HYDRAULIC OIL
ASHLESS 32, 46, 68

DESCRIPTION
This is a superior quality, ashless, high viscosity index, anti-wear hydraulic oil developed to meet the requirements of modern hydraulic systems. This high performance oil contains a balanced selection of non-zinc additives that afford anti-rust, oxidation stability, anti-foam and anti-wear properties.

APPLICATION
Is recommended for use in industrial hydraulic systems and also in other industrial applications where high quality oils are required. These include circulation systems and machine tools where high oxidation stability, anti-wear properties and high filtration speeds are of importance.

BENEFITS
- Superior wet and dry filterability.
- Excellent anti-wear performance.
- Good rust and corrosion protection.
- Outstanding oxidation stability.
- Fast air release.

PERFORMANCE LEVELS
- Denison HFO, HF-1, HF-2
- Vickers Eaton I-286-S; M-2950-S
- AFNOR NFE 48603 (HM)
- DIN 51524 Part I and II

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