Product Description

D-A eco-flo™ series is a performance engineered, readily biodegradable, non-toxic hydraulic oil. It is specifically designed for use in environmentally sensitive applications for all modern high pressure hydraulic powered systems. This lubricant begins with naturally high viscosity index base oils for temperature shear stability and is formulated with our advanced ChemGuard™ additive technology.

The D-A ChemGuard™ innovative formula has vigorous antiwear inhibitors that effectively reduce scuffing and wear in severe environments. It also delivers superior protection against corrosion and combats against rust and oxidation (R&O) for industrial gear applications.

D-A eco-flo™ series is rigorously tested for its performance as well as its environmentally safe components. This product is highly recommended for use in monitored or environmentally sensitive locations.

Product Features and Benefits

Limits wear in low and high pressure vane pumps for longer pump life and reduced operating cost.
Provides wear control for steel, brass and bronze pump parts when operating at maximum pressure ratings, resulting in excellent pump protection and more cost efficient operation.
Can be used in both mobile and stationary hydraulic equipment as well as applications requiring an R & O oil for gear box and speed reducer lubrication, giving service flexibility and minimized inventory.
Special rust and corrosion inhibitors limit rusting of ferrous metals and corrosion of yellow metals.

PRODUCT AT A GLANCE

- Readily Biodegradable
- Non-Toxic
- Designed for use in modern high pressure hydraulic systems
- Vigorous ChemGuard™ Antiwear & R&O inhibitors
- Longer Pump Life
- Environmentally safe components
Typical Applications

Axial Piston Pumps
Construction Machinery
Hydraulic Power Systems
Hydraulic Drills
Industrial Gear Drives
Rotary Air Compressors

ISO Viscosity Grade ASTM D2422 32 46 68
Viscosity @ 40°C, cSt ASTM D445 32 46 68
Viscosity @ 100°C, cSt ASTM D445 7.5 9.5 13.6
Viscosity Index ASTM D2270 207 210 210

Pour Point, °F (°C)
ASTM D97 -36 (-38) -35 (-37) -31 (-35)

Flash Point, °F (°C)
ASTM D92 500 (260) 510 (266) 530 (277)

API Gravity ASTM D287 21.2 20.6 20.0

D-A part numbers:
Drum, 55 Gal 53322 53332 53342
Pail, 5 Gal 53328 53338 53348

Typical Properties

Applies to all grades:

Biodegradability

<table>
<thead>
<tr>
<th>Standard</th>
<th>Test Data</th>
<th>Classification</th>
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<tr>
<td>OECD 301B</td>
<td>&gt;60% @ 28 days</td>
<td>Readily biodegradable</td>
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ISO Viscosity Grade ASTM D6158
Bosch Rexroth RE 90220
Cincinnati Machine
P-68 (ISO 32), P-69 (ISO 68),
P-70 (ISO 46)
Commercial Hydraulics

DIN 51524, part 2
Eaton-Vickers 35VQ25
General Motors LS-2 (LH-03-1, LH-04-1, LH-06-1)
ISO 11158
Parker Hannifin HF0, HF1, HF2
SAE NS 1004

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To Order D-A Products, Call 1-800-OIL-LUBE (1-800-645-5823) or Fax orders to 765-482-3065
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