

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



D-A Lubricant Company, Inc.

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Typical Applications

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

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

Typical Properties

Applies to all grades:

	<u>Standard</u>	<u>Test Data</u>	<u>Classification</u>	
Biodegradability	OECD 301B	>60% @ 28 days	Readily biodegradable	
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

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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