

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 anti-wear 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.

Typical Applications

Axial Piston Pumps	ASTM D6158	DIN 51524, part 2
Construction Machinery	Bosch Rexroth RE 90220	Eaton-Vickers 35VQ25
Hydraulic Power	Cincinnati Machine	General Motors LS-2 (LH-03-1, LH-04-1, LH-06-1)
Systems Hydraulic Drills	P-68 (ISO 32), P-69 (ISO 68),	ISO 11158
Industrial Gear Drives	P-70 (ISO 46)	Parker Hannifin HF0, HF1, HF2
Rotary Air Compressors	Commercial Hydraulics	SAE MS 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	Test Method	32	46
Viscosity			
@ 100°C, cSt	ASTM D445	7.5	9.5
@ 40°C, cSt	ASTM D445	32	46
Viscosity Index	ASTM D2270	207	210
Pour Point, °F (°C)	ASTM D97	-36 (-38)	-35 (-37)
Flash Point, °F (°C)	ASTM D92	500 (260)	510 (266)
API Gravity	ASTM D4052	21.2	20.6

D-A Part Number:

Bulk	53321	53331
Tote – 330 Gal	53323	53333
Drum – 55 Gal	53322	53332
Pail (Plastic) - 5 Gal	53328	53338