

Product Description

D-A HydraSafe™ is a specially designed hydraulic fluid for use in monitored or environmentally sensitive heavy-duty applications. This premium 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 proprietary **ChemGuard™** innovative formula has vigorous EP/antiwear inhibitors resulting in wear control around steel, brass, and bronze parts. An exceptional anti-rust and anti-oxidation additive has been included to significantly limit rusting of ferrous and corrosion of yellow metals. In addition, the robust D-A **ChemGuard™** technology improves demulsification, provides hydrolytic stability, and greatly reduces foaming, sludge and varnishing. This environmentally responsible zinc and calcium free formula also provides excellent air release characteristics and cold temperature pumping capability.

HydraSafe™ is rigorously tested for its durability as well as its environmentally safe, low toxicity component performance. D-A **HydraSafe™** may be utilized to protect and extend equipment life in mobile or stationary hydraulic systems, agriculture, forestry, mining, dredging, off-shore platforms, tunneling, waste management and many other environmental contamination sensitive areas.

Product Features and Benefits

Naturally high viscosity index base oils provide temperature shear stability.

Vigorous EP/antiwear inhibitors control wear around steel, brass and bronze parts.

Exceptional anti-rust and anti-oxidation additive limit rusting of ferrous metals and corrosion on yellow metals.

Zinc and Calcium free formulation provides excellent air release characteristics and cold pumping capability

Typical Applications

Axial Piston Pumps
Construction Machinery
Hydraulic Power Systems
Hydraulic Drills
Piston Pumps
ASTM D6158

Fives P-68 (ISO 32), P-69 (ISO 68), P-70 (ISO 46)
DIN 51524-2
Eaton 35VQ25 - all grades
ISO 1158 HM
ISO 20763
Parker Hannifin HF0, HF1, HF2 - all grades
SAE MS 1004



D-A Lubricant Company, Inc.

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Typical Properties

Applies to all grades:

	<u>Standard</u>	<u>Test Data</u>	<u>Classification</u>
Toxicity	OECD 203	96-h LL50>1000	Non-Toxic
Biodegradability	OECD 301B	22% @ 28 days	Inherently biodegradable

ISO Viscosity Grade	ASTM D2422	32	46	68
Viscosity				
@ 100°C, cSt	ASTM D445	5.56	7.00	8.97
@ 40°C, cSt	ASTM D445	32.0	46.0	68.0
Viscosity Index	ASTM D2270	110	108	105
Flash Point,				
°F	ASTM D92	400	425	440
°C	ASTM D92	204	218	227
Pour Point,				
°F	ASTM D97	-29	-26	-22
°C	ASTM D97	-34	-32	-30
API Gravity @ 60°F	ASTM D287	32.0	31.6	31.0

D-A Part Number	Drum, 55 Gal	55072	55082	55062
	Pail, 5 Gal	55078	55088	55068

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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