

Product Description

Readily biodegradable **D-A HydraSafe™ LF** is a specially designed less flammable 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™** special additive technology.

The D-A **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. Certain manufacturing and some environmentally sensitive applications require that hydraulic oils contain no metals - zinc or calcium. These oils are still required to meet the stringent testing limits imposed on zinc based formulations. This environmentally responsible zinc-free formula is truly built for the most challenging conditions.

Readily biodegradable **D-A HydraSafe™ LF** is rigorously tested for its durability, performance as well as its environmentally safe, non-toxic components.

Readily biodegradable **D-A HydraSafe™ LF** 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

AIST (US Steel) 127, 136

Cincinnati Milacron P-68, P-69, P-70

DIN 51524 Parts 1 and 2

Vickers I-286-S

Vickers M-2950-S



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>
Biodegradability	OECD 301B	>60% @ 28 days	Readily biodegradable

	Test	Typical Properties		
ISO Viscosity Grade	ASTM D2422	32	46	68
Viscosity @ 40°C, cSt	ASTM D445	32.9	47.7	66.1
Viscosity @ 100°C, cSt	ASTM D445	6.8	9.7	12.5
Viscosity Index	ASTM D2270	175	175	175
Pour Point, °F (°C)	ASTM D97	-37 (-35)	-40 (-40)	-15 (-24)
Flash Point, °F (°C)	ASTM D92	550 (288)	595 (314)	608 (320)
Specific Gravity @ 15.6°C/60°F	ASTM D1298	0.903	0.922	0.925
Rust	ASTM D665B	Pass	Pass	Pass
Copper Corrosion	ASTM D130	1b	1b	1b
FZG, Last Pass Stage	ASTM D5182	12	12	12
Oxidation Stability	ASTM D943 Dry	>3000	>3000	>3000

D-A Part Number	Drum, 55 Gal	54932	54942	54952
	Pail, 5 Gal	54938	54948	54958

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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