



ISO-9001 Registered Quality System.
ISO-21469 Compliant.

Sales, Service & Distribution Center

Newark, NJ 07105
Phone: 973-589-9150 Fax: 973-589-4432

Manufacturing, Sales, Service & Distribution Center

Toledo, OH 43605
Phone: 419-691-2491 Fax: 419-693-3806

Sales and Tech Service Support

Phone: 1-800-733-4755

LUBRIPLATE ZF HYDRAULIC OILS

LUBRIPLATE ZF Hydraulic Oils are premium ashless anti-wear fluids designed to perform in the most demanding hydraulic applications. These heavy-duty, high performance oils can withstand elevated temperatures and high pressures resulting in lower maintenance costs as well as extended oil life.

LUBRIPLATE ZF Hydraulic Oils do not contain any zinc or silicone compounds.

LUBRIPLATE ZF Hydraulic Oils meet the following requirements:

OEM

Vickers (Eaton)
General Motors
Cincinnati Machine
Bosch Rexroth (formerly
Mannesman Rexroth)
German Steel Industry
DIN 51524
AFNOR NF E 48-603
U.S. Steel
SAE

Specification

M-2950-S and I-286-S
LS-2
P-68, P-69, P-70

RE 90 220
SEB 181222
Part I & II
Part I & II
No. 126, 127, 136
MS 1004

LUBRIPLATE ZF Hydraulic Oils are non-toxic to aquatic life, exceeding *U.S. EPA LC50 test requirements adopted by the U.S. Fish and Wildlife Service and the U.S. Environmental Protection Agency*. These environmentally safe hydraulic oils are compatible with other mineral based hydraulic oils and are easily recyclable.

<u>Typical Tests</u>	<u>ZF-32</u>	<u>ZF-46</u>	<u>ZF-68</u>	<u>ZF-100</u>
Viscosity cSt @ 40°C	34.79	46.34	69.83	101.1
Viscosity cSt @ 100°C	5.2	6.4	8.2	11.25
Viscosity SUS @ 100°F	173	240	328	522
Viscosity SUS @ 210°F	47	51	55	65.4
SAE	10	20	20	30
ISO	32	46	68	100
Viscosity Index	129	117	106	97
Flash Point	440°F/227°C	470°F/243°C	475°F/246°C	475°F/246°C
Fire Point	480°F/249°C	510°F/266°C	510°F/266°C	545°F/285°C
Pour Point	-40°F/-40°C	-35°F/-37°C	-20°F/-29°C	-10°F/-23°C
Gravity	32.3	32.0	31.8	29.2
Color	L-1	L-1	L-1.5	L-2.5
Aniline Point	220°F	240°F	250°F	259°F
Oxidation ASTM D-943	----- Typically Above 3000 Hours -----			
Dielectric Strength	----- Typically Above 35 kv -----			

(Additional Testing Continued)

LUBRIPLATE ZF HYDRAULIC OILS - Cont'd:

LUBRIPLATE ZF-32

<u>Test Method</u>	<u>Description</u>	<u>Results</u>
ASTM D-877	Dielectric Breakdown Voltage of Insulating Liquids 3 kv/sec ramp rate, 0.10 inch electrode gap, 1 inch disk electrodes	Breakdown Voltage (kilovolts)
		Run 1 42.56
		Run 2 35.26
		Run 3 40.69
		Run 4 32.74
		Run 5 37.52
		Average Breakdown 37.75

LUBRIPLATE ZF-46

FEATURES

- √ Good hydrolytic stability
- √ Superior anti-wear protection
- √ Good oxidative & thermal stability prevents sludge and controls deposit
- √ Outstanding demulsifying, foaming & air release properties
- √ Excellent rust & corrosion protection
- √ Excellent filterability
- √ Compatible with Calcium & Zinc containing fluid
- √ No ZnDTP & metal free
- √ Low phosphorus & low sulphur EP/AW additive package

BENEFITS

- √ Reduces pump wear & protects against cavitation
- √ Keeps the hydraulic system corrosion free
- √ Enables smooth functioning of servo valves & extends the life of oil & filters
- √ Provides a long service life under severe wet & dry operating conditions
- √ Helps extend maintenance intervals & increases equipment uptime
- √ Lowers overall maintenance costs which helps production efficiency
- √ Being ashless (metal free) helps minimize disposal & effluent treatment costs
- √ Supports the trend to limit heavy metal contamination of the environment

Packaging Available:

	<u>ZF-32</u>	<u>ZF-46</u>	<u>ZF-68</u>	<u>ZF-100</u>
5 Gallon Pail	L0948-060	L0949-060	L0950-060	L0953-060
55 Gallon Drum	L0948-062	L0949-062	L0950-062	L0953-062