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LUBRIPLATE SYN LUBE Synthetic Fluid Series - 22, 32, 46, 68 & 100

LUBRIPLATE SYN LUBE ISO VG Fluids 22 through 100 are high performance, zinc-free synthetic fluids for industrial machine applications. These fluids are 100% synthetic based products formulated with a combination of PAO and ester technology.

LUBRIPLATE SYN LUBE Synthetic Fluids are available in (5) ISO Viscosity Grades (ISO VG 22, 32, 46, 68, 100) and recommended for many types of rotary screw and rotary vane air compressors. These synthetic fluids are excellent for high temperature bearing and chain applications as well as situations striving for improved efficiency and extended drain intervals. They are also excellent products for centrifugal air compressors, all types of hydraulic systems and turbine oil applications.

LUBRIPLATE SYN LUBE Synthetic Fluids provide several advantages over mineral oil based products.

EXTENDED DRAIN INTERVALS

- Excellent thermal and oxidation stability characteristics increase the service life of the lubricant many times over that of petroleum oils.
- Provide outstanding water demulsibility allowing for any water that may have entered the system to be rapidly separated from the **SYN LUBE Synthetic Fluids**. The water can then be easily drained and emulsion problems can be averted.
- Generally, intervals of 8,000 hours of compressor fluid service can be achieved, depending on operating conditions. **LUBRIPLATE Division** encourages the use of our Free Oil Analysis Program to determine the extended drain interval.

ENERGY SAVINGS

- **SYN LUBE Synthetic Fluids** exhibit high viscosity indexes, excellent lubricity, very low coefficients of friction and superior heat transfer characteristics, resulting in lower operating temperatures and lower power consumption.

FLUID/MATERIAL COMPATIBILITY

- **SYN LUBE Synthetic Fluids** are compatible with mineral oil products avoiding time-consuming flushing procedures and allowing conversion to be simplistic. Always consult **LUBRIPLATE** prior to conversion if compatibility is an issue.
- **SYN LUBE Synthetic Fluids** are recommended for use with high Nitrile Buna-N, Teflon, Viton, Fluorosilicone and Polysulfide elastomers. These fluids are **not** recommended for use with low Nitrile Buna-N, Neoprene or natural rubber.

(over)

LUBRIPLATE SYN LUBE Synthetic Fluid Series Typical Properties:

<u>Physical Characteristics</u>	<u>ASTM</u>	<u>Syn Lube 22</u>	<u>Syn Lube 32</u>	<u>Syn Lube 46</u>	<u>Syn Lube 68</u>	<u>Syn Lube 100</u>
Viscosity @ 40°C cSt	D-445	23	32	44	66	110
@ 100°C cSt	D-445	5	6	8	10	15
Viscosity Index	D-2270	138	136	138	138	142
Pour Point °F/°C	D-97	-70/57	-70/-57	-65/-54	-60/-51	-55/-48
Flash Point °F/°C	D-92	420/216	470/243	485/250	515/267	530/277
Fire Point °F/°C	D-92	470/243	505/263	550/288	580/304	590/310
API Gravity	D-287	39.6	37.0	37.4	37.8	36.7
Color	D-1500	1.0 max	1.0 max	1.0 max	1.0 max	1.0 max
Density (Pounds/Gallon)	-----	6.89	6.993	6.976	6.960	7.005
ISO Viscosity Grade	-----	22	32	46	68	100
Autoignition Temperature (734°F)	E-659	ND	> 700°F	> 700°F	> 700°F	> 700°F
<u>Performance Characteristics</u>	<u>ASTM</u>	<u>Syn Lube 22</u>	<u>Syn Lube 32</u>	<u>Syn Lube 46</u>	<u>Syn Lube 68</u>	<u>Syn Lube 100</u>
Four-Ball Wear Test Average Wear Scar Diameter (40 Kg., 1200 rpm., 1 hr. @ 75°C)	D-4172	0.5	0.5	0.5	0.5	0.5
Copper Corrosion	D-130	1a	1a	1a	1a	1a
Conradson Carbon Residue	D-189	Nil	Nil	Nil	Nil	Nil
Emulsion Characteristics @ 82°C (Oil/Water/Emulsion)	D-1401	40-40-0 (10)	40-40-0 (10)	40-40-0 (10)	40-40-0 (20)	40-40-0 (20)
Rust Test Procedure B	D-665	Pass no corrosion	Pass no corrosion	Pass no corrosion	Pass no corrosion	Pass no corrosion
Rotating Bomb Oxidation Test (Minutes)	D-2272	> 2000	> 2000	> 2000	> 2000	> 2000
Demulsibility Characteristics Procedure B; Run 1	D-2711					
Percent of Water in Oil		0.4%	0.4%	0.4%	0.2%	0.2%
Free Water Volume		86.0 ml	86.0 ml	86.0 ml	84.0 ml	84.0 ml
Emulsion Volume		0.0 ml	0.0 ml	0.0 ml	0.0 ml	0.0 ml
Demulsibility Characteristics Procedure B; Run 2	D-2711					
Percent of Water in Oil		0.10%	0.10%	0.10%	0.3%	0.3%
Free Water Volume		87.8 ml	87.8 ml	87.8 ml	84.7 ml	84.7 ml
Emulsion Volume		0.0 ml	0.0 ml	0.0 ml	0.0 ml	0.0 ml
Demulsibility Characteristics Procedure B; Average	D-2711					
Percent of Water in Oil		0.07%	0.07%	0.07%	0.3%	0.3%
Free Water Volume		86.9 ml	86.9 ml	86.9 ml	84.4 ml	84.4 ml
Emulsion Volume		0.0 ml	0.0 ml	0.0 ml	0.0 ml	0.0 ml

LUBRIPLATE SYN LUBE Synthetic Fluid Series Cont'd:

<u>Packaging Available</u>	<u>Syn Lube 22</u>	<u>Syn Lube 32</u>	<u>Syn Lube 46</u>	<u>Syn Lube 68</u>	<u>Syn Lube 100</u>
Carton 4/1-Gallon Jugs	-----	-----	L0971-057	-----	-----
5-Gallon Pail	L0968-060	L0970-060	L0971-060	L0972-060	L0973-060
55-Gallon Drum	L0968-062	L0970-062	L0971-062	L0972-062	L0973-062

Printed in USA
Revised 5/14/14