TECHNICAL DATA SHEET

R&O HYDRAULIC OIL SERIES

Chem and Lube's R&O Hydraulic Oil Series are blended from premium quality base stocks with a carefully selected additive package. These oils are specifically designed to protect hydraulic systems from rust (corrossion) and oxidation. This ensures the oil maintains its lubricating properties over time, even under high-temperature or moist conditions.

- Enables outstanding thermal and oxidative stability increasing useful oil life
- Contains a metal passivator that prevents corrosion of brass, bronze and copper system parts
- Includes a demulsifier to reject water and help prevent sludge, rust, plugged filters and corrosive acidic compounds
- Meets or exceeds many requirements for R&O hydraulic and turbine oils
- Maintains low tendency to foam

Applications:

- Hydraulic systems with moderate operating pressures
- Machinery where corrosion protection and long oil life are important
- Environments where extended oil service intervals are desirable

Benefits/ Advantages:

- Increased oil life - - due to outstanding thermal and oxidative stability
- Excellent rust protection - - prevents moisture from causing corrossion
- Strong hydrolytic stability - - prevents acid formation, sludge, & corrosion

The Chem and Lube R&O Hydraulic Oil Series was formulated to meet or exceed the requirements for these industrial fluid specifications:

DIN 51515-7	Denison HF-1
DIN 51517	Cincinnati-Miacron P-38, P-45, P-55, P-62
DIN 51524	DIN 51524, Part 1
GE GEK 46506D	U.S. Steel 126
GE GEK 27070	MIL-H-17672C
GE GEK 28143A	AFNOR E-48600 HH/HL

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Typical Inspections

Grade	22	32	46	68	100	150	220	320	460
Viscosity									
SUS @ 100^{0}F	105	155	210	330	510	793	1163	1692	2400
SUS @ 210^{0}F	39.8	43.5	47.3	55.5	63.7	71.8	105.3	130	153
cSt @ 40^{0}C	20	31	44	64.5	97.7	150	220	320	455
cSt @ 100^{0}C	4.02	5.17	6.29	8.33	10.4	13.4	19.7	28.7	31.2
Flash Point, ^{0}F	380	410	420	440	465	490	500	500	575
Density (Lb/G)	7.18	7.24	7.28	7.33	7.35	7.41	7.43	7.44	7.45

Typical Properties

Procedure	Specification	Criteria	Result
Rotary Bomb D-2272	USS 126	120	520
Turbine Oil Oxidation	DIN 51524, Part 1		
Hrs to 2.0 NNA	MIL-L-17672 D; ASTM D943	1,000 min	2,700
Sludge, mg	Denison HF-1	100 max	37
Copper, mg		100 max	0.54
Iron, mg		100 max	0.96
NNA Increase		0.2	0.2
Thermal Stability	Cincinnati-Milacron (CMM)		
Copper		5	2
Steel		2	1
Sludge, mg/100 ml		25	7
Turbine Oil Rust Test D-665			
A-Distilled Water	USS 126, HF-1, CMM	Pass	Pass
B-Synthetic Sea Water	USS 126, HF-1, MIL	Pass	Pass
Turbine Oil Demulsibility D-1401	USS 126, AFNOR, MIL	40-37-3	40-40-0
54.4^{0}C ml: oil-water emulsion (m)	USS 126, AFNOR, MIL	(30)	(15)
Acid Number, New Oil D-974	CMM, AFNOR, MIL, DIN		0.15

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