



SYNDRraulic

HIGH PERFORMANCE HYDRAULIC OIL

BEYOND SYNTHETIC®

Syndraulic is a clean, long life, energy efficient, minimum leak, hydraulic oil possessing exceptional film strength and wear protection properties. It is formulated to greatly increase both the life of the oil and the seals, filters and pumps of hydraulic systems.

Syndraulic is formulated with Royal Purple's proprietary Synerlec additive technology. It can lower operating temperatures and restore normal operation to erratically operating hydraulic systems.

Syndraulic 32, 46, and 68 are NSF certified for H2 service.

SYNERLEC® ADDITIVE TECHNOLOGY MAKES THE DIFFERENCE!

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synerlec additive technology that gives its lubricants their amazing performance advantages. Synerlec additive technology truly is beyond synthetic.

Synerlec additive technology forms a tough, slippery, synthetic film on all metal surfaces. This proprietary film significantly improves lubrication: first, by increasing the oil film's thickness, and second, by increasing the oil film's toughness, both of which help to prevent metal-to-metal contact. It displaces moisture from metal surfaces and protects all metals against rust and corrosion. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

PERFORMANCE ADVANTAGES

High Film Strength

Syndraulic with Synerlec additive technology protects gear components beyond the ability of other Hydraulic oils.

Longer Oil Life

Syndraulic has outstanding oxidation stability and keeps equipment clean.

Excellent Corrosion Protection

Syndraulic with Synerlec additive technology's tough oil film forms an ionic bond on metal surfaces. This film not only protects during operation and acts as a preservative oil during shutdown, but it also provides instant lubrication upon startup to prevent wear.

Improved System Performance

Syndraulic lowers operating temperatures and restores smooth, consistent performance to erratically operating gear systems.

Rapidly Separates From Water

Syndraulic rapidly and completely separates from water, which can easily be drained from the bottom of oil reservoir to keep the oil dry.

Synthetic Solvency

Syndraulic natural solvency cleans up dirty equipment and keeps it clean.

Environmentally Responsible

Syndraulic extends oil drain intervals due to longer oil service life, eliminates premature oil changes due to oil / water emulsions, greatly reduces oil purchase and disposal costs and conserves energy.

Compatible with Seals

Syndraulic has excellent seal compatibility.

		ISO GRADE			
Typical Properties*	Method	32	46	68	150
Viscosity	ASTM D445				
cSt @ 40°C		32	46	68	150
cSt @ 100°C		5.3	6.8	8.9	15.1
Density, lbs/gal	ASTM D4052	7.31	7.33	7.37	7.44
Viscosity Index	ASTM D2270	105	105	106	101
Pour Point, °F/°C	ASTM D97	-49/-45	-38/-39	-33/-36	-27/-33
Flash Point, °F/°C	ASTM D92	426/219	436/224	460/238	486/252
Demulsibility Test	ASTM D1401				
Mins @ 130°F		40/38/2(15)	43/37/0(15)	43/37/0(20)	
Mins @ 180°F					43/37/0(10)
ISO Cleanliness Level	ISO 4406	14/13/11	14/13/11	14/13/11	
Copper Corrosion Test	ASTM D130	1A	1A	1A	1A
Foam Test, Seq II	D892	0/0/0	0/0/0	0/0/0	0/0/0

*Properties are typical and may vary.