

## **SYNTHETIC NON-EP HYDRAULIC & TURBINE OIL RUST AND OXIDATION PREVENTATIVE**

**XL-7320** is designed for use in most industrial applications. **XL-7320** is formulated to resist high or low operating pressures without oil film breakdown, ensuring optimum lubrication at all times.

**XL-7320** performs very well throughout a wide temperature range. It is highly resistant to chemical degradation, and contains anti-wear and anti-oxidant additives as well as an anti-foaming agent.

The inherent wetting and penetrating properties of the **XL-7320** will prevent seals from drying and leaking.

**XL-7320** is formulated WITHOUT zinc and therefore can be utilised with silver-plated pumps or gearboxes.

**XL-7320** is available in all standard ISO grades, as well as a multi-grade for all season use.

Recommended for up to 8,000 hours of service.

### **Benefits:**

- Surpasses US Steel 126
- Denison HF-1
- Cincinnati Mil. P-38, 45, 54, 55, 57, 62
- DIN 51524 Part 1
- MIL-L-17672C
- AFNOR E-48600 HL
- Outstanding thermal and oxidative stability
- Low copper activity
- Excellent rust protection
- Good hydrolytic stability
- No deleterious effect on demulsibility
- No deleterious effects on antifoam characteristics

### **Applications:**

- Circulating oils
- Rock drill oils
- Gear oils
- Mist oils
- Turbine oils
- Heat Transfer Oils



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TYPICAL SPECIFICATIONS										
Product Code: XL-7320	/010	/022	/032	/046	/068	/100	/104	/220	/320	/460
SAE Grade	-	5W	-	-	-	-	10w40	-	-	-
ISO Grade	10	22	32	46	68	100	-	220	320	460
Viscosity (cSt @ 40°C) (ASTM D-445)	9.5	21.5	29.3	41.5	63.5	97.2	92.3	210	315	432
(cSt @ 100°C) (ASTM D-445)	-	4.8	5.8	7.3	9.9	13.5	13.7	24.5	32.6	42.7
Viscosity Index	-	151	145	141	140	139	151	146	145	152
Flash Point (°C)	200	202	210	214	222	225	204	225	228	230
Pour Point (°C) (ASTM D-97)	-63	-58	-47	-40	-40	-35	-50	-31	-28	-22
Specific Gravity (g/ml)	0.85	0.85	0.85	0.86	0.87	0.87	0.88	0.88	0.88	0.88
Colour:	Blue									

PERFORMANCE SUMMARY XL-7320/068 (ISO 68)		
TEST PROCEDURE	SPECIFICATION	RESULT
Rotary Bomb (m to 25psi loss)	ASTM D-2272	300
Turbine Oil Oxidation (Hours to 2.0 TAN)	ASTM D-943	2700 <sup>+</sup>
Sludge and Metal Corrosion (1000h)	ASTM D-4310	
Insoluble sludge (mg)		28
Total Cu (mg)		1.3
Total Fe (mg)		1.1
Thermal Stability (168h, 135°C, Cu-Fe Catalyst)	Cincinnati - Milacron	
Sludge (mg/100ml)		15
Condition of Cu Rod (SM colour class)		3
Condition of Fe Rod (SM colour class)		2
Copper Corrosion	ASTM D-130	1a
Turbine Oil Rust Test	ASTM D-665	
a) Distilled water		Pass
b) Synthetic sea water		Pass
Total Acid Number – New Oil (mg KOH/g)	ASTM D-974	0.15
Foam Test	ASTM D-892	
Sequence 1		0-0
Sequence 2		0-0
Sequence 3		0-0
Turbine oil demulsibility (@ 54.4°C)	ASTM D-1401	40-40-0
MI: oil-water emulsion (m)		(25)



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The information presented in this bulletin is, to the best of our knowledge, accurate. It is intended to be helpful, and is not to be considered a guarantee.

