WHITMORE'S

TECHNICAL DATA SHEET

HYPERION™

HYDRAULIC/TURBINE/COMPRESSOR OILS

Whitmore's HyperionTM oils bring together several developments in both base oil and additive technology to create a true multifunctional product. HyperionTM oils meet the needs of today's high precision hydraulic systems, turbines, and air compressors.

Hyperion™ has been formulated using the highest quality severely hydroprocessed paraffinic oils. Laboratory tests and field experience have clearly demonstrated the positive impact of these base oils on finished product properties and performance.

In laboratory tests, Hyperion™ severely hydroprocessed base oil shows a major reduction in evaporation loss. Oxidation stability exceeds that of conventional base oils by 60-100%. These performance improvements translate into reduced carbon and varnish deposits. The end result is longer oil and component life.

Whitmore uses an ashless (zinc-free) additive system that has been specifically tailored to these base oils. This further enhances the longevity and high temperature performance of the Hyperion $^{\text{TM}}$ series. An extension in oil life of 50% can be expected. (The use of oil analysis to determine ideal change frequency is recommended.)

Use Hyperion[™] in rotary screw compressors where the discharge temperature ranges up to 190°F (88°C).

BENEFITS:

- LONG LIFE 50% longer oil life. Further extension is possible depending on operating temperature and maintenance practices, such as filtration.
- REDUCED DEPOSITS less carbon and varnish means reduced stress and wear on components.
- ANTIWEAR PROTECTION offers wear protection without the surface deposits that are created by zinc-based additive systems. These deposits can cause stickiness in highprecision spool valves.
- RESISTS FOAMING low foaming tendency. Entrained air is readily released.

APPLICATIONS:

Hyperion™ oils are suitable for use in hydraulic systems, turbines and the majority of flooded screw, flooded rotary vane, and reciprocating air compressors. They are also suitable for use on conveyor chains operating at temperatures up to 200°F (93°C). Viscosity grade ISO 32 is recommended for use in compressed air systems for lubrication of air operated tools.

Meets the following OEM requirements:

Vickers	1-286-S, M-2950-S
Denison	HF-1, HF-2, HF-0
U.S. Steel	127, 136
Cincinnati Milacron	P-68, P-69, P-70
General Motors	LH-04-1, LH-06-01, LH-15-1

ASTM #		TYPICAL CHARACTERISTICS							
	ISO Grade	32	46	68	100	150	220	320	460
D-445	Kinematic Viscosity								
	cSt @ 40°C	31	43	64	92	146	220	307	467
	cSt @ 100°C	5	7	9	11	14	19	24	31
D-2270	Viscosity Index	99	102	103	96	95	97	95	94
D-97	Pour Point, °F (°C)	-25 (-32)	-25 (-32)	-25 (-32)	-15 (-26)	-15 (-26)	0 (-18)	10 (-12)	0 (-18)
Gardner	Density, lb/gal @ 60°F (15.5°C)	7.19	7.21	7.26	7.30	7.36	7.38	7.40	7.43
Method	Specific Gravity, g/cc @ 60°F (15.5°C)	0.861	0.863	0.869	0.874	0.881	0.883	0.885	0.889
D-92	Flash Point, °F	400	410	425	440	485	525	530	535
	(°C)	(204)	(210)	(218)	(227)	(252)	(274)	(277)	(279)
D-4172	Four Ball Wear								
	Scar Width, mm @ 40 kgf	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Modified	Four Ball Wear, Scar Width mm								
	60 min, 400 N, 1,420 rpm	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
D-665	Rust Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
D-2272	Oxidation Stability,								
	rotary bomb hrs @ 302°F	26	27	28	30	22	19	15	NA
D-189	Conradson Carbon Residue, % Carbon	0.04	0.05	0.05	0.06	0.06	0.14	0.18	NA
D-943	Oxidation Stability, hrs	10,000	10,000	10,000	10,000	10,000	10,000	10,000	NA
	FZG Stages Passed	>12	>12	>12	>12	>12	>12	>12	>12

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING						
Drums	Kegs	Pails				

THE WHITMORE MANUFACTURING COMPANY

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Performance Under Pressure Since 1893

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