



## UNIVERSAL SUPER HD TURBINE OIL

Universal Super HD Turbine Oils are formulated to completely satisfy the lubrication requirements of steam, hydraulic and gas turbines. These oils are made with carefully refined high viscosity index base oils specifically treated to exhibit outstanding viscosity temperature characteristics to provide superior lubrication for turbine bearings and main propulsion gears, even in extreme heat and moisture conditions.

Selected ingredients are blended with these stocks to impart high oxidation stability and effective rust and corrosion resistance to extend the life of moving parts. Universal Super HD Turbine Oils contain a water additive that enhances moisture droppage and an anti-foam additive which alters the surface tension of the oil for fast air release to prevent foaming.

<u>PROPERTY</u>	<u>ASTM TEST METHOD</u>	<u>ISO 100</u>	<u>ISO 150</u>	<u>ISO 220</u>	<u>ISO 320</u>
Viscosity @ 40°C, cSt	D445	100.1	150.2	220.1	320.0
Viscosity @ 100°C, cSt	D445	11.06	14.84	19.44	24.50
Viscosity Index	D2270	98	98	100	97
Flash Point, COC, °C	D92	220	254	260	270
Flash Point, COC, °F	D92	420	490	500	518
Pour Point, °C(°F)	D97	-10(8)	-12(10)	-9(15)	-9(15)
Color	D1500	2.5	2.5	5.0	5.0
Gravity, °API	D287	28.3	28.3	27.0	26.5
Turbine Oil Oxidation	D943	2000+	2000+	2000+	2000+
Rust Test	D665	Pass	Pass	Pass	Pass
Copper Strip Test	D130	1	1	1	1

Meets or exceeds the following tests and requirements:

- Denison - HF-1
- Cincinnati Milacron - P-38, P-54, P-55, P-57

Recommended for use in the following environments:

- Industrial Plants
- Utility Plants
- Railroad Engines
- Vacuum and Deep Well Pumps
- Marine Engines
- Electric Motors (oil-lubricated)
- Anti-Friction Bearings

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