



HICKS oils  
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FORMULA



## R&O Hydraulic and Turbine Oils

FORMULA 500® R&O Hydraulic and Turbine Oils are formulated with rust and oxidation inhibitors for use in hydraulic systems calling for non-AW fluids, turbines, and as a general bearing lubricant. These oils are made from selected high viscosity index paraffinic base stocks and premium quality additives to give outstanding performance.

The base oils' high viscosity index imparts superior temperature-viscosity characteristics. Long service life in closed circulation systems is assured by low carbon-forming tendency and excellent resistance to oxidation, rust and foaming. The versatility of FORMULA 500® R&O Hydraulic and Turbine Oils makes them suitable for a wide variety of applications in industrial fields. They give excellent service in a range of chain and enclosed gear drives, turbines and are recommended in hydraulic systems where a high quality non-AW hydraulic fluid is specified, including heat transfer applications.

FORMULA 500® R&O Hydraulic and Turbine Oils are also suitable for use in the circulating systems of a large variety of industrial machinery, and for the lubrication of electric motors and turbo-generators where R&O hydraulic oil is recommended.

These lubricants do not contain anti-wear additives, and should not be used where an anti-wear hydraulic fluid is required. They are zinc-free, allowing them to be used in systems containing silver bearings, or otherwise requiring zinc-free oil.

FORMULA 500® R&O Hydraulic and Turbine Oils meet the following performance specifications:

- Cincinnati Milacron P-38, P-55, and P-57
- General Electric GEK-32568
- Solar Turbines ES9-224
- DIN 51524, Part 1
- Denison HF-1
- Hägglunds-Denison HF-0 Bench Tests

### Typical Properties:

Product: FORMULA 500® R&O Hydraulic and Turbine Oils								
ISO Viscosity	32	46	68	100	150	220	320	460
Product Code	1222	1223	1224	1225	1226	1227	1228	1229
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	5.5	6.8	8.7	12.2	15.0	19.4	23.4	30.0
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	31.7	44.7	67.0	100.5	150.0	228.2	307.5	440.1
Viscosity Index (ASTM D-2270)	112	110	101	113	100	97	95	101
Turbine Oxidation (ASTM D-943)	5000	5000	5000	4000	2500	1500	1200	1100
RPVOT, min (ASTM D-2272)	700	700	600	400	300	300	300	300