

# PRODUCT DATA SHEET



## Marathon Premium R & O Hydraulic Oils

### Product Description

Marathon Premium R & O Hydraulic Oils provide a full slate of protection for general purpose machinery, steam and hydroelectric light duty turbines, and wherever R & O oils are recommended. Benefits include oxidation stability, rust & corrosion protection, limited foam, fast air release, rapid water separation, and exceptional thermal stability.

Due to its wide range of protective benefits, Marathon Premium R & O Oil can potentially replace other niched application lubricants, reducing inventory and operating costs. These hydraulic oils are recommended in most hydroelectric, marine, and steam turbines, as well as electric motor bearings, air compressors, gears, and non-heavy duty hydraulic systems, where the OEM recommends R&O type oils.

### Features

- ➔ Excellent rust and oxidation protection
- ➔ Rapid air release to minimize pump cavitation in high circulation rate systems
- ➔ Exceptional water separation (demulsibility) to facilitate water removal
- ➔ Environmentally friendly due to ashless (zinc-free) formulation

### Industry & OEM Applications

- DIN 51524-1, DIN 51515-1
- Siemens TLV 901304
- British Standard 489-1999
- Alstom HTGD 90117
- GEK 28143b, GEK 46506D
- FIVES (formally MAG) P-38, P-54, and P-55
- Parker Denison HF-0 Bench Test

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### Technical Data (Typical values)

ISO Grade	ASTM	32	46	68	100
Product Numbers		0615 (bulk), 0619 (55 g drum)	0619 (bulk), 0618 (55 g drum)	1216 (bulk), 1217 (55 g drum)	1221 (bulk), 1219 (55 g drum)
Viscosity @ 100°C, cSt	D445	5.32	6.87	8.28	12.11
Viscosity @ 40°C, cSt	D445	28.9	45.30	63.22	108.20
Viscosity Index	D2770	121	107	99	102
Specific Gravity at 60°F	D4052	0.8510	0.8650	0.8760	0.8770
Pour Point, °C	D5950	-36	-24	-21	-42
Color ASTM	D1500	L1.0	L1.5	L1.5	L0.5
Demulsibility, min (Time to 40/37/3)	D1401	10	25	20	20
Foam	D892	0/0	40/0	0/0	0/0
Seq 1					
Seq 2					
Seq 3		20/0	0/0	0/0	0/0
RPVOT, min	D2272	700	650	500	660
Rust Test, 24 h	D665B	PASS	PASS	PASS	PASS

- (1) Always follow your operator's manual to confirm that the selected product is consistent with the original equipment manufacturer's recommendation and maintenance practices
- (2) Do not use these R & O oils in large and high temperature gas turbines or in high pressure systems in the vicinity of flames, sparks, and hot surfaces

The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers.

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Marathon Petroleum Company believes the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.