Champion Quantum AW/R&O series oils are long-life hydraulic oils formulated with severely hydrotreated and hydrofinished API Group II base oils for improved oxidation resistance, viscosity retention, and cold-flow properties. These oils demonstrate excellent protection against wear, corrosion, and the build-up of sludge and varnish in even the most demanding, high-pressure hydraulic systems including those with positive-displacement vane and piston pumps and high-precision servo valves.

- Extended fluid life for longer intervals
- Excellent filterability and cleanliness
- High thermal and oxidation stability
- Top-tier anti-wear performance
- Improved cold start protection
- Excellent demulsibility

Champion Quantum AW/R&O series oils meet or exceed the following specifications:

- Parker (Denison) HF-0, HF-1, HF-2
- Eaton M-2950-S, I-286-S3
- MAG (CM) P-68 (ISO 32), P-69 (ISO 46), P-70 (ISO 68)
- Bosch Rexroth RE 90220
- GM LS-2
- SEB 181222
- Joy HO-T, HO-5, HO-T2
- AFNOR NF E 48-603 (HM)
- AIST (US Steel) 126, 127
- SAE MS 1004, Type HM
- DIN 51524-2, Type HLP
- ANSI/AGMA 9005-E02-90
- ASTM D6158, Type HM
- ISO 11158, Type HM
- ISO 6743/4, Type HM

PART# 4318 - ISO 32
PART# 4319 - ISO 46
PART# 4320 - ISO 68
PART# 4327 - ISO 100
PART# 4329 - ISO 150

**Typical Properties**

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<th>ISO Grade</th>
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These oils have a typical fluid life of 7,000 hours.