



Champion Quantum All Season Hydraulic Oils

Champion Quantum All Season 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 have excellent viscosity retention and cold-flow due to their very high viscosity indexes. They have moderate resistance to shear-thinning. 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 service intervals
- Excellent filterability and cleanliness
- High thermal and oxidation stability
- Excellent demulsibility and air release
- Top-tier anti-wear performance
- Excellent cold-flow properties
- Forms thicker films at higher temperatures

Champion Quantum All Season series oils meet or exceed the following specifications:

- Parker (Denison) HF-0, HF-1, HF-2
- MAG (CM) P-68 (ISO 32), P-69 (ISO 46), P-70 (ISO 68)
- GM LS-2
- Joy HO-T, HO-S, HO-T2
- AIST (US Steel) 126, 127
- DIN 51524-3, Type HLVP
- ASTM D6158, Type HV
- ISO 6743/4, Type HV
- Eaton M-2950-S, I-286-S3
- Bosch Rexroth RE 90220
- SEB 181222
- AFNOR NF E 48-603 (HV)
- SAE MS 1004, Type HV
- ANSI/AGMA 9005-E02-RO
- ISO 11158, Type HV

Typical Properties

ISO Grade	22	32	46	68
Product No	4265	4266	4267	4268
Kinematic Viscosity @ 40°C, cSt	22.54	32	46	68
Kinematic Viscosity @ 100°C, cSt	5.66	6.9	8.5	11.5
Viscosity Index	210	185	165	165
Dielectric Breakdown Voltage*	>35KV	>35KV	>35KV	>35KV

*At point of manufacture

These oils are non-conductive as manufactured
These oils have a typical fluid life of 7,000 hours