



CHEVRON HYDRAULIC OILS AW

ISO 32, 46, 68

CUSTOMER BENEFITS

Chevron Hydraulic Oils AW deliver value through:

- **Good oxidation stability** — Provide good service life in high pressure service.
- **Rust and corrosion protection** — Give excellent protection against corrosion of both copper and steel, and passes the ASTM D 665A distilled water rust test and ASTM D 665B synthetic sea water rust test.
- **Minimum viscosity change** over a wide temperature range.
- **Good foam inhibition** — Contain special foam suppressant, reducing both foaming and aeration problems.
- **Excellent antiwear properties**
- **Passes all major pump manufacturer's requirements** — ISO 32, 46, and 68 meet the requirements of leading hydraulic pump manufacturers for antiwear-type hydraulic fluids in both vane- and piston-type pumps.
- **Good stability in the presence of water** by ASTM D 2619 Hydrolytic Stability test and the Denison T6C Wet Vane Pump test.
- **Good thermal stability** in the presence of copper and steel at 135°C (275°F) by the Cincinnati Machine Thermal Stability, Procedure A, test.
- **Fast water separation** — Minimize rust problems by fast release of water.

FEATURES

Chevron Hydraulic Oils AW are designed to give excellent hydraulic pump protection. They are formulated with refined paraffinic base oils. They provide excellent antiwear protection, oxidation and corrosion inhibition, as well as foam and aeration suppression. All grades have excellent demulsibility characteristics.

Hydraulic systems, due to the nature of their operation, experience accelerated wear unless they are protected by clean, high quality antiwear hydraulic oils. Surging pressures in pumps and valves can increase metal-to-metal contact unless antiwear protection is present. The antiwear additives in Chevron Hydraulic

Oils AW create a protective film on the metal surfaces. This protective film minimizes metal-to-metal contact, which is most severe in vane- and gear-type pumps. As hydraulic pressures increase over 1000 psi, the need for antiwear protection increases proportionally.

APPLICATIONS

Chevron Hydraulic Oils AW are versatile lubricants available in ISO viscosity grades from 10 to 68.

ISO 32, 46, and 68 are most commonly used for hydraulics with vane-, piston-, or gear-type pumps, especially where pressures exceed 1000 psi. They can also be used to lubricate lightly loaded reciprocating compressors and as general purpose shop lubricants for motors and bearings.

Chevron Hydraulic Oils AW meet AGMA Specification 1 (ISO 46) and Specification 2 (ISO 68).

Chevron Hydraulic Oils AW **ISO 32, 46, and 68**:

- meet all major pump manufacturer requirements including **Eaton-Vickers** 35VQ25A for M-2950-S (Mobile) and I-286-S (Stationary), **Denison** HF-0/HF-2, **Bosch Rexroth**, and **Racine** Model S
- meet **MAG Cincinnati, Cincinnati Machine** specifications P-68 (ISO 32), P-70 (ISO 46), and P-69 (ISO 68)
- are certified by **NSF** and are acceptable as lubricants where there is no possibility of food contact (H2) in and around food processing areas. The NSF Nonfood Compounds Registration Program is a continuation of the USDA product approval and listing program, which is based on meeting regulatory requirements of appropriate use, ingredient review and labeling verification.

Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

TYPICAL TEST DATA

ISO Grade	32	46	68
<i>Product Number</i>	255675	255674	255673
<i>MSDS Number</i>	7457	7457	7457
AGMA Grade	—	1	2
API Gravity	32.6	31.8	31.6
Viscosity, Kinematic cSt at 40°C cSt at 100°C	30.4 5.2	43.7 6.5	64.6 8.4
Viscosity, Saybolt SUS at 100°F SUS at 210°F	157 44	225 48	334 55
Viscosity Index	98	98	99
Flash Point, °C(°F)	220(428)	226(439)	235(455)
Pour Point, °C(°F)	-25(-13)	-23(-9)	-22(-8)
Oxidation Stability Hours to 2.0 mg KOH/g acid number, ASTM D 943	>2000	>2000	>2000

Typical test data are average values only. Minor variations which do not affect product performance are to be expected in normal manufacturing.