



# CHEVRON HYDRAULIC OIL AW

## 32, 46, 68

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### PRODUCT DESCRIPTION

Chevron Hydraulic Oils AW are designed to give excellent hydraulic pump protection.

### 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 D665A distilled water rust test and ASTM D665B synthetic sea water rust test.
- **Minimum viscosity change** over a wide temperature range.
- **Good foam inhibition** — Contain special foam suppressant, minimizing both foaming and aeration problems.
- **Excellent antiwear properties**
- **Meets 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 D2619 Hydrolytic Stability test and the Denison hybrid T6H20C Wet Pump test.
- **Good thermal stability** in the presence of copper and steel by the MAG Cincinnati Machine Thermal Stability, Procedure A, test.
- **Fast water separation** — Minimize rust problems by fast release of water.

### FEATURES

Chevron Hydraulic Oils AW 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 32, 46 and 68.

**ISO 32, 46 and 68** grades 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.

Product(s) manufactured in the USA, Colombia and El Salvador.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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**CLAIMS AND APPLICATIONS**

<b>ISO Grade</b>	<b>32</b>	<b>46</b>	<b>68</b>
Bosch Rexroth Racine Model S	M	M	M
Eaton (Vickers) 35VQ25A (Pump Test) I-286-S (Stationary) M-2950-S (Mobile)	M	M	M
Fives Cincinnati <sup>a</sup> (formerly MAG Cincinnati, Cincinnati Machine, Cincinnati Milacron)	M P-68	M P-70	M P-69
NSF H2 <sup>b</sup>	<b>A</b>	<b>A</b>	<b>A</b>
Parker Hannifin (Denison) HF-0, HF-1, HF-2	M	M	M
ASTM D6158 HM	M	M	M
DIN 51524-2 HLP	M	M	M
ISO 11158 L-HM	M	M	M

- a. Obsolete specification.
- b. Chevron Hydraulic AW ISO grades 32, 46, 68 are registered 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.

**A:** Approved for

**M:** Meets or exceeds requirements

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**TYPICAL TEST DATA**

<b>ISO Grade</b>	<b>Test Method</b>	<b>32</b>	<b>46</b>	<b>68</b>
<i>Product Number</i>		255675	255674	255673
<i>SDS Number</i>				
<i>U.S.</i>		7457	7457	7457
<i>Colombia</i>		32564	32564	32564
<i>El Salvador</i>		32563	32563	32563
API Gravity	ASTM D287	32.6	31.8	31.6
Density at 15°C, kg/L	ASTM D4057	0.8655	0.8735	0.8811
Viscosity, Kinematic				
cSt at 40°C	ASTM D445	30.4	43.7	64.6
cSt at 100°C		5.2	6.5	8.4
Viscosity, Saybolt				
SUS at 100°F	ASTM D2161	157	225	334
SUS at 210°F		44	48	55
Viscosity Index	ASTM D2270	98	98	99
Flash Point, °C(°F)	ASTM D92	220(428)	226(439)	235(455)
Pour Point, °C(°F)	ASTM D97	-25(-13)	-23(-9)	-22(-8)
Copper Corrosion 3h at 100°C	ASTM D130	1b	1b	1b
Foam Test, Seq. I				
Tendency, mL	ASTM D892	20	20	20
Stability, mL		0	0	0
Rust Test, Procedure A&B	ASTM D665	PASS	PASS	PASS
Water Separability, minutes to <3mL at 54°C	ASTM D1401	15	15	15
Oxidation Stability, TOST Hours to 2.0mg KOH/g TAN	ASTM D943	>2000	>2000	>2000

Minor variations in product typical test data are to be expected in normal manufacturing.

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