



LUBRICANTS

Hydraulic AW

Phillips 66® Hydraulic AW is a general-purpose anti-wear hydraulic oil developed for use in a wide range of industrial hydraulic system applications, especially in less demanding applications where premium performance is not required.

Hydraulic AW is formulated to provide good wear protection for hydraulic pumps and motors, good oxidation resistance, and protection against rust and corrosion. It has good water-separating properties to minimize the formation of emulsions, and is resistant to excessive foam buildup that can cause poor or sluggish hydraulic system response.

Applications

- Hydraulic systems on industrial equipment
- Mining equipment, including drills, loaders and shuttle cars
- Air tools and other pneumatic equipment lubricated through air line lubricators
- Chain drives
- Electric motor bearings

Hydraulic AW meets the requirements of the following OEM specification:

- Eaton-Vickers I-286-S

Features/Benefits

- Protects against wear
- Good oxidation resistance
- Protects against rust and corrosion
- Good water-separating properties
- Good foam resistance

General-Purpose Anti-wear Hydraulic Oil

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



Hydraulic AW

| Typical Properties | | | | |
|---|-----------|-----------|-----------|-----------|
| ISO Grade | 32 | 46 | 68 | 100 |
| Specific Gravity @ 60°F | 0.866 | 0.871 | 0.874 | 0.886 |
| Density, lbs/gal @ 60°F | 7.21 | 7.25 | 7.28 | 7.38 |
| Color, ASTM D1500 | 0.5 | 0.5 | 0.5 | 2.5 |
| Flash Point (COC), °C (°F) | 216 (421) | 227 (441) | 238 (460) | 225 (437) |
| Pour Point, °C (°F) | -18 (0) | -18 (0) | -18 (0) | -10 (14) |
| Viscosity | | | | |
| cSt @ 40°C | 32.0 | 46.0 | 68.0 | 100 |
| cSt @ 100°C | 5.3 | 6.7 | 8.6 | 10.1 |
| SUS @ 100°F | 165 | 238 | 353 | 526 |
| SUS @ 210°F | 44.0 | 48.7 | 55.2 | 60.6 |
| Viscosity Index | 96 | 97 | 97 | 76 |
| Acid Number, ASTM D974, mg KOH/g | 0.4 | 0.4 | 0.4 | 0.5 |
| Foam Test, ASTM D892 | Pass | Pass | Pass | Pass |
| Oxidation Stability, TOST, ASTM D943-04a, hours | >2,000 | >2,000 | >2,000 | >2,000 |
| Rust Test, ASTM D665 A | Pass | Pass | Pass | Pass |
| Zinc, wt % | 0.031 | 0.031 | 0.031 | 0.031 |

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

