

76 Unax® AW

76 UNAX® AW is a premium-quality, anti-wear hydraulic fluid developed for use in all types of high-pressure, high-speed hydraulic pumps used in industrial, mobile and marine hydraulic systems. It is available in eight viscosity grades: ISO 22, 32, 46, 68, 100, 150, 220 and 320. An effective zinc/phosphorus anti-wear additive provides excellent wear protection, ensuring long life for hydraulic pumps and motors.

76 UNAX® AW is formulated with high-quality, paraffinic base oils and fortified with additives that provide excellent wear protection, oxidation resistance and rust and corrosion protection. It is inhibited to minimize deposits and viscosity increase due to oxidation at high temperatures, resulting in long service life. It also has excellent low-temperature properties for cold startups.

76 UNAX® AW has excellent water-separating characteristics and is resistant to foaming that can cause poor hydraulic system response. It is noncorrosive to bronze or brass. These features ensure proper lubrication and operation of hydraulic system components.

76 UNAX® AW meets the stringent performance requirements of leading pump and hydraulic system manufacturers such as Cincinnati Machine, DeLaval, Denison, Dynex, Hydreco, Moog, Oilgear, Racine, Rexnord, Rexroth, Sundstrand, Towler, Vickers and Voith.

Applications

- Industrial, mobile and marine hydraulic systems
- Hydraulic control systems for machine tools and presses
- Hydraulic elevators, hoists and lifts
- Moderately loaded industrial gear sets that do not require an extreme-pressure gear lubricant
- Rotary and single-stage reciprocating air compressor
- Air-line lubricant for air tools and other air-actuated equipment
- General purpose lubrication

**Premium Anti-Wear
Hydraulic Oil**

**Customer Service
Number:**

1-888-766-7676

**Technical
Hot line:**

1-800-435-7761

**E-mail Address:
76lubricants@
conocophillips.com**



Recommended For

- AGMA R&O Grades 1 through 6 (non-EP)
- Cincinnati Machine P-68, P-69 and P-70 (ISO VG 32, 68 & 46) anti-wear hydraulic oils
- Denison HF-0, HF-1 and HF-2 Hydraulic Fluids for axial piston pumps and vane pumps
- DIN 51524 Part 2 anti-wear hydraulic oils
- GM LH-04-1, LH-06-1, LH-15-1
- Rexroth worldwide hydraulic requirement
- Sundstrand hydrostatics (operating above 0°F)
- Towler hydraulics
- U.S. Steel 127 heavy-duty anti-wear hydraulic oil
- Vickers M-2950-S for mobile hydraulics and I-286-S for industrial hydraulics

Outstanding Features

- Outstanding wear protection for critical system components
- Excellent thermal stability, minimizes deposit formation and viscosity increase due to oxidation
- Excellent rust and corrosion protection
- Excellent water-separating characteristics, minimizes emulsions formation
- Excellent filterability
- Good foam resistance
- Good low-temperature properties (ISO grades 22-68)

Due to continual product research and development, the information contained herein is subject to change without notification.

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Typical Properties

ISO Grade	22	32	46	68
Specific Gravity @ 15.6°C	0.857	0.858	0.860	0.866
Density, lbs/gal	7.12	7.15	7.17	7.22
Gravity, °API	33.7	33.4	33.0	31.9
Color, ASTM	L 0.5	0.5	0.5	0.5
Flash Point, (COC), °C (°F)	196 (385)	216 (421)	227 (441)	238 (460)
Pour Point, °C (°F)	-40 (-40)	-37 (-35)	-37 (-35)	-33 (-27)
Viscosity,				
cSt @ 40°C	22.0	31.6	46.5	67.9
cSt @ 100°C	4.4	5.6	7.0	9.2
SUS @ 100°F	115	163	239	351
SUS @ 210°F	41	45	50	57
Viscosity Index	111	117	107	112
Acid Number, ASTM D664	0.5	0.5	0.5	0.5
Copper Corrosion, ASTM D130	1A	1A	1A	1A
Demulsibility, ASTM D1401, minutes to pass	20	20	20	20
Dielectric Strength, ASTM D877, kv	35	35	35	35
Foam Test, ASTM D892	Pass	Pass	Pass	Pass
FZG Load Test, ASTM D5182, Pass Stage	10	10	10	10
Oxidation Stability, TOST, ASTM D943, hours	4500	4500	4500	4500
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass
ISO Grade	100	150	220	320
Specific Gravity @ 15.6°C	0.874	0.876	0.886	0.891
Density, lbs/gal	7.29	7.30	7.39	7.43
Gravity, °API	30.4	30.0	28.2	27.3
Color, ASTM	0.5	2.0	2.5	3.0
Flash Point, (COC), °C (°F)	252 (486)	274 (525)	274 (525)	282 (540)
Pour Point, °C (°F)	-32 (-26)	-21 (-6)	-21 (-6)	-14 (+7)
Viscosity,				
cSt @ 40°C	97.8	149	201	297
cSt @ 100°C	11.6	15.1	18.3	23.3
SUS @ 100°F	508	781	1,059	1,578
SUS @ 210°F	66.1	80.1	93.7	116
Viscosity Index	107	102	100	98
Acid Number, ASTM D974	0.5	0.5	0.5	0.5
Copper Corrosion, ASTM D130	1A	1A	1A	1A
Demulsibility, ASTM D1401, minutes to pass	20	20	30	30
Foam Test, ASTM D892	Pass	Pass	Pass	Pass
FZG Load Test, ASTM D5182, Pass Stage	10	10	10	10
Oxidation Stability, TOST, ASTM D943, hours	4000	4000	3500	3500
Rust Test, ASTM D665 A&B	Pass	Pass	Pass	Pass

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