



76 Firebird AW

76 Lubricants Firebird AW is an environmentally responsible antiwear hydraulic oil formulated with greater than 50% high-quality, re-refined base stocks. It has been specially developed to lessen the environmental impact of disposal of used oil. It is recommended for use in a wide variety of industrial, mobile and marine hydraulic system applications.

Firebird AW is available in three viscosity grades: ISO 32, 46 and 68. It is formulated with a blend of conventional and re-refined base stocks, a zinc dithiophosphate antiwear additive, rust and oxidation inhibitors, and an antifoam agent. It provides excellent wear protection for hydraulic pumps and motors, has good oxidation resistance at high temperatures to minimize deposit formation and provide long service life, and protects hydraulic system components 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.

Firebird AW is recommended for use in all types of high-pressure, high-speed hydraulic pumps. It meets the performance requirements of leading hydraulic pump manufacturers, including Bosch Rexroth, Parker Hannifin HPD (formerly Denison Hydraulics) and Vickers (Eaton).

Applications

- Hydraulic systems on industrial, mobile and marine equipment
- Automated machine tools
- Hydraulic elevators, hoists, presses and floor jacks
- Hydraulic systems on mobile construction equipment
- Marine cargo winches and steering systems
- Service station lifts
- Air tools and other pneumatic equipment lubricated through air line lubricators
- Chain drives
- Moderately loaded enclosed industrial gearboxes that do not require an extreme-pressure (EP) gear oil
- Plain and rolling element bearings in electric motors

**Antiwear Hydraulic
Oil Formulated With
Re-refined Base
Stocks**

**Customer Service
Number:
1-888-766-7676**

**Technical Hot Line:
1-800-435-7761**

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Firebird AW meets the performance requirements of:

- Cincinnati Lamb Specifications P-68 (ISO VG 32), P-70 (ISO VG 46), P-69 (ISO VG 68)
- Denison Hydraulics HF-0, HF-1, HF-2
- DIN 51524 Part 2, Antiwear Hydraulic Oils, Type HLP
- General Motors LS-2, Antiwear Hydraulic Oil
- German Steel Industry SEB 181222
- ISO 11158:1997, Hydraulic Fluids, Family H
- U.S. Steel 127
- Vickers (Eaton) M-2950-S, I-286-S

Features/Benefits

- Excellent wear protection for hydraulic pumps and motors
- Good oxidation resistance
- Protects against rust and corrosion
- Good water-separating properties
- Good foam resistance
- Lessens the environmental impact of used oil disposal

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

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76 Firebird AW Typical Properties

ISO Grade	32	46	68
Density, g/cm ³ @ 15.6°C (60°F)	0.865	0.869	0.875
Density, lbs/gal @ 15.6°C (60°F)	7.20	7.24	7.29
Color, ASTM D1500	1.0	1.0	3.0
Flash Point (COC), °C (°F)	210 (410)	235 (455)	245 (473)
Pour Point, °C (°F)	-31 (-24)	-30 (-22)	-27 (-17)
Viscosity,			
cSt @ 40°C	32.0	46.0	68.0
cSt @ 100°C	5.4	6.8	8.6
SUS @ 100°F	165	237	353
SUS @ 210°F	44.4	49.0	55.2
Viscosity Index	102	101	98
Acid Number, ASTM D974, mg KOH/g	0.40	0.40	0.40
Copper Corrosion, ASTM D130	1a	1a	1a
Demulsibility, ASTM D1401, minutes to pass	60	60	60
FZG Gear Test, ASTM D5182, Pass Load Stage	10	10	10
Oxidation Stability, TOST, ASTM D943, hrs	2,000	2,000	2,000
Rust Test, ASTM D665 A&B	Pass	Pass	Pass
Zinc, wt %	0.043	0.043	0.043
Base Oil, Re-refined Content, wt %	>50	>50	>50

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

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