Product Information

R&O and Anti Wear Hydraulic Oils

Economical Hydraulic Oils For Normal To Moderate Service
Average Oxidation Life Of 1500 Hours

DESCRIPTION

Gard® AW Hydraulic Oils are economical, general purpose fluids blended with antiwear additives plus rust, oxidation and foam inhibitors for use in industrial hydraulic systems and for hydraulic only systems in farm, logging and construction equipment. These oils are blended from specially selected hydrotreated base oils chosen for their clarity, purity, color and resistance to oxidation. An OEM approved additive system is employed to impart maximum performance in hydraulic system applications. Typical oxidation life of 1500 hours.

Gard® AW Hydraulic Oils are blended to comply with iso viscostiy grade specifications and are intended for use in industrial and commercial applications where service is normal to moderate and extended life and high anti-wear service is not primary. These oils offer excellent general purpose service in farm, commercial and industrial applications.

Gard® R&O Hydraulic Fluid is a blend of highly refined base stocks additized with rust, oxidation foam inhibitors for use in industrial general purpose applications calling for normal to moderate service. This fluid can be used in old and new equipment where anti-wear properties are not required. Excellent low temperature properties for use in cold climates.

APPLICATION

Gard® AW Hydraulic Oils are recommended in hydraulic equipment operating under normal to moderate pressures and requiring an antiwear hydraulic fluid. May also be used in circulating oil systems protecting gears or other moving parts.

Typical applications would include forklifts, trash compactors, hydraulic lifts, automobile transports, dump trucks, log splitters and many types of farm, logging and industrial machinery where hydraulic systems are separate from transmissions and wet clutches and brakes. Essentially non-conductive, these oils may also be used in electrical cherrypickers.

BENEFITS

- Provides a lubricant hydrodynamic film for protection against metal to metal contact.
- Non Conductive
- Economical products for applications where long term service is not the primary requirement
- Inhibit rust, corrosion and foaming and aid in water tolerance
- AW series contains zinc anti-wear additives
- Napthenic base oils offer excellent low-temperature service
- OEM approved additive system in both R&O and AW series

PERFORMANCE LEVELS

Gard® AW Hydraulic Oils

- Cincinnati Milacron P-68, P-69, P-70
- Denison HF-O, HF-1, HF-2
- Sperry Vickers M-2905S+-I-286
- Sperry Vickers V104C vane-pump wear test - CETOP RP 47H conditions
- DIN 51525 'Hydraulic Oils Type H-LP

CROSS OIL REFINING & MARKETING, INC.

CROSS PACKAGING DIVISION
SMACKOVER, AR 71762 ■ USA ■ PHONE 800 864-6275 ■ FAX 870 864-8656

Product Information

TYPICAL PROPERTIES	METHOD	R&O ISO 46	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220
Viscosity, cSt at 40°C	D 445	46.9	15.3	19.8	30.8	45.0	64.7	99.3	141.9	217.0
Viscosity, cSt at 100°C	D 445	5.7	3.1	3.6	4.6	5.7	7.0	8.4	11.3	14.4
Viscosity Index	D 2270	43	35	17	41	35	44	20	49	44
Specific Gravity @15.6°C	D 1298	0.915	0.904	0.906	0.914	0.915	0.914	0.919	0.926	0.924
Flash Point, °C	D 92	188	145	192	194	182	198	195	228	230
Pour Point, °C	D 97	-36	-56	-42	-39	-35	-31	-21	-18	-15
Di-elective Strength, KVA	D877	34	34	34	34	34	34	34	34	28

The information on this Product Data Sheet is believed to be accurate and is typical of current production. Specifications are subject to change without notice.

Health And Safety Information See separate Material Safety Data Sheets available on request.

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