



GS Hydro HD

Antiwear Hydraulic Fluid

ISO VG 10, 22, 32, 46, 68, 100, 150, 220, 320

DESCRIPTION

Premium-quality antiwear hydraulic fluid designed for use in mobile and stationary high pressure hydraulic systems. Contains a stabilized zinc additive system which provides outstanding antiwear characteristics, it also provides good thermal and oxidation stability.

APPLICATIONS

- Recommended for all hydraulic systems designed to use a mineral oil based fluid, regardless of pump type, operating speeds and pressures.
- Should be used whenever antiwear hydraulic fluids are specified by the equipment manufacturer or where high wear has occurred when using non-antiwear hydraulic fluids.
- Suitable for enclosed gears operating under moderate load conditions, as well as industrial circulating systems where a rust and oxidation inhibitor or antiwear oil is required.

PERFORMANCE STANDARDS

Meets the requirements of German hydraulic fluid Standard DIN 51524 Part 2 and U.S. Steel Specification 126&127. Approved in the Denison Hydraulics HF-0 for severe-duty axial piston and vane pump service, and Vickers Specifications M-2952-S, 1-286-S for industrial applications and M-2950-S for mobile hydraulic equipment.

CUSTOMER BENEFITS

- Reduces risk of breakdown due to overloading by protecting the components of high pressure hydraulic systems against wear.
- Maintains system efficiency by rapidly releasing entrained air.
- Good filterability and trouble-free performance in the presence of water contamination through excellent hydrolytic stability and its rapid water separation characteristics.
- Compatible with all kinds metals used in hydraulic systems including silver and phosphor-bronze pump components which are used in axial piston pumps.

- Provides long service life by resisting oil thickening and the formation of harmful deposits.
- Protects against rust and corrosion.

KEY PROPERTIES

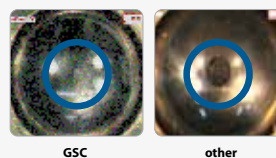
ISO VG	10	22	32	46	68	100	150	220	320
Density, kg/L @15°C	0.84	0.841	0.854	0.865	0.867	0.868	0.8716	0.8797	0.885
Kinematic Viscosity, mm ² /s @40°C	10.01	21.82	31.57	46.08	65.82	97.8	150.8	226.6	310.7
Kinematic Viscosity, mm ² /s @100°C	2.64	4.55	5.5	7.06	8.74	11.92	15.61	20.51	21.82
Viscosity Index	95.4	125	117	111.2	110	110	107	105	105
Pour Point °C	-18	-45	-33	-30	-30	-24	-24	-18	-18
Flash Point °C	160	212	221	229	235	243	268	270	270
Rust Preventive, Sea Water (D665)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Package (Liters)	18,200	18,200	18,200	18,200	18,200	20,200	200	200	200

USP (Unique Selling Point)

- The special anti-wear additive package reduces wear by protecting surface when load breakdown of the lubricant film.
- Outstanding oxidation stability compared with other anti-wear hydraulic oil ensure less in-service thickening and longer fluid life.

Long equipment life

4-Ball anti-wear test result



Longer service life

Oxidation Stability Test Result
(Time to TAN 2.0 @ 95°C)

