

Hydris MX GOLD

HydraMaxx Technology inside

Hydris MX GOLD premium performance hydraulic oil is designed for heavy duty use and high levels of performance over a wide range of temperatures and pressures. Also provides excellent operating and maintenance benefits for improved productivity.

Hydraulic system technology relies on high quality oils performing the dual role of lubricating the system and providing fluid power transfer. Modern high pressure pump systems require anti-wear protection coupled with the prevention of rust, corrosion, varnish buildup, foaming and air entrainment.

Hydris MX GOLD is designed and tested to meet the demanding needs of most hydraulic applications. Hydris MX GOLD will maximize the benefits of advanced fluid technology to achieve the optimal operational performance.

Hydris MX GOLD meets or exceeds
DENNISON HF-0, HF-1, HF-2
VICKERS 35VQ25
EATON/VICKERS M2950-S, I286-S
CINCINNATI MACHINE P-68, P-69, P-70
FORD M6C32,
CHRYSLER, GENERAL MOTORS LS-2
US STEEL I36



Hydris MX GOLD: For use in high performance, heavy duty hydraulic systems recommending AW or RO hydraulic oil.

ALWAYS FOLLOW THE VISCOSITY RECOMMENDATION AS SPECIFIED BY THE OEM APPROPRIATE FOR THE ANTICIPATED AMBIENT OPERATING TEMPERATURE OF THE EQUIPMENT.

PART#:	ISO 22 AW	ISO 32 AW	ISO 46 AW	ISO 68 AW
	3433-2 (20 L Pail)	3409-2 (20 L Pail)	3412-2 (20 L Pail)	3415-2 (20 L Pail)
	3434-2 (205 L Drum)	3410-2 (205 L Drum)	3413-2 (205 L Drum)	3416-2 (205 L Drum)
	3435-2 (1000 L Tote)	3411-2 (1000 L Tote)	3414-2 (1000 L Tote)	3417-2 (1000 L Tote)

Hydris MX GOLD premium performance hydraulic oil is recommended for all high pressure hydraulic systems where vane, gear and piston pumps are found on industrial machinery and mobile equipment. Hydris MX GOLD is also recommended for use in fixed hydraulic systems where ambient operating temperatures are consistent.

For hydraulic systems in environmentally sensitive areas use Marinius Readily Biodegradable Hydraulic Oil

HydraMaxx Technology is a proprietary additive chemical formula designed to improve the key performance aspects of hydraulic oil. HydraMaxx enhances cold flow, improves viscosity index, provides improved water separation and unparalleled anti-wear, rust and corrosion protection. HydraMaxx Technology also provides the added benefit of seal conditioners, reducing the long term effects of heat exposure to elastomer seals and hydraulic hoses. HydraMaxx Technology provides superior performance and protection for demanding hydraulic applications.

ADDITIONAL KEY BENEFITS

- Enhanced Anti-Wear formula for long life protection of all vane, gear and piston pumps
- Maximizes power transfer efficiency
- Long life formula extends fluid service
- Improves operability over a wide range of temperatures and pressures
- Rust and Corrosion protection
- Excellent anti-foam properties and air entrainment performance
- Superior hydrolytic stability and power transfer propensity
- Non conductive, safe for use in overhead electrical service equipment
- Thermal stability and oxidation resistant
- Suitable for ultra fine filtration
- Improved water separation
- Highly versatile and compatible with pump designs and seal materials



HYDRAMAXX TECHNOLOGY OVERVIEW

Viscosity Index Improvers: Enhanced VI maintains lubricant flow characteristics over a wide range of temperatures. Also improves shear stability of the oil.

Extreme Pressure/Anti Wear additives: Increased fluid strength provides unequalled protection in high load, high friction conditions. Polarized film protects during start up conditions.

Pour Point Depressants: Reduces the pour point and improves flow at low temperatures.

Water Demulsifiers: Improves fluid's ability to separate from water, greatly reducing hydraulic issues related to water.

Detergents and Dispersants: Maintains cleanliness and keeps contaminants in suspension.

Seal Conditioners: reduces the long term effects of heat exposure to elastomer seals, keeping seals pliable.

Oxidation Inhibitors and Acid Neutralizers: Enhanced alkaline reserve prevents oil breakdown during service life. Increased stability and performance of the basic lubricating components of the oil.

Rust and Corrosion Inhibitors: Protects against adverse effects of moisture and oil oxidation caused by contaminants in the oil.

Guidance on Health and Safety are available on the Material Safety Data Sheet

Hydris MX GOLD is compatible with all seal materials normally specified for use with mineral oils. Avoid spills and leakage by properly maintaining and inspecting hydraulic system components prior to use.

TYPICAL PROPERTIES	ASTM METHOD	22 AW	32 AW	46 AW	68 AW
Color		L 1.0	L 1.0	L 1.5	L 2.5
Specific Gravity @ 15.6°C		0.855	0.861	0.866	0.871
Kinematic Viscosity @ 40°C (cSt)	D 445	22.9	32.9	44.1	67.0
Kinematic Viscosity @ 100°C (cSt)	D 445	5.1	6.3	8.2	10.7
Viscosity Index	D 2270	159	145	163	150
Pour Point (°C)	D 97	-48	-42	-36	-36
Flash Point (°C)	D 92	210	228	236	238
Demulsibility	D 1401	Pass	Pass	Pass	Pass
Oxidation Stability (hrs)	D 943	>4000	>4000	>4000	>2500
Rust Prevention	D 665	Pass	Pass	Pass	Pass
Copper Corrosion	D 130	1 A	1 A	1 A	1 A
Dielectric Breakdown Voltage (> 25 kV)	D 877	Pass (>35)	Pass (>35)	Pass (>35)	Pass (>35)
Dielectric Breakdown Voltage (> 15 kV)	D 1816	Pass (>23)	Pass (>23)	Pass (>23)	Pass (>23)

HYDRAMAXX ADDITIONAL TESTING	ASTM METHOD	RESULTS
Elastomer Compatibility (5% in ISO 32 paraffinic oil)		
Nitrile, Neoprene, Fluorocarbon	D 4289	Pass, Pass, Pass
Hydrolytic Stability (5% in ISO 32 paraffinic oil)		
		no viscosity change
Copper weight loss (mg/cm ²)	D 2619	0.67
Copper appearance	D 2619	1B - 2B Shiny
Acid number change (mg KOH/g)	D 2619	0
MARYN Extreme Pressure Testing (MWI)		
Hydris MX GOLD results (MWI)	D 2509 modified	76 589
Typical ISO 32 oil results (MWI)	D 2509 modified	2064
Typical ISO 32 HVI oil results (MWI)	D 2509 modified	2356

