MaxHydro HD 100

High-Performance Anti-Wear Hydraulic Oil

Description

MAXFLUID MaxHydro HD 100 is a high-performance anti-wear hydraulic oil developed by MAXFLUID for modern high-pressure industrial and marine hydraulic systems. It meets the stringent requirements of systems using high-pressure, high-output pumps, as well as components such as close-clearance servo valves and numerically controlled (NC) machine tools.

MaxHydro HD 100 is designed to satisfy the demanding performance requirements of a wide range of hydraulic system and component manufacturers, allowing a single product to be used across many applications. It combines excellent oxidation stability, anti-wear and corrosion protection, controlled demulsibility, and keep-clean properties.

Performance Features & Benefits

Excellent Oxidation Stability
Resists oxidation to help reduce maintenance downtime and costs, contributing to system cleanliness and lower deposit formation while enabling long oil and filter life.

Enhanced Anti-Wear Protection
Protects system components made from various metallurgies, helping extend component life and improve production capacity.

Corrosion & Rust Protection
Protects hydraulic components against corrosion and rust, supported by a Pass in ASTM D665 Procedure B and a 1B copper strip corrosion rating.

Controlled Demulsibility
Protects hydraulic systems from both small and large quantities of water contamination.

Keep-Clean Properties
Reduces deposits and sludge, helping protect equipment, extend service life, lower maintenance costs, and improve total system performance.

High Load-Carrying Capability
Achieves FZG fail load stage 12 (ISO 14635-1, A/8.3/90), providing dependable protection for heavily loaded pumps and gears.

Applications

MAXFLUID MaxHydro HD 100 is recommended for:

- Industrial and marine hydraulic systems
- Hydraulic systems using high-pressure, high-output pumps
- Systems with close-clearance servo valves
- Numerically controlled (NC) machine tools
- Systems sensitive to deposit build-up, or where sludge forms with conventional products
- Systems requiring high load-carrying capability and anti-wear protection
- Applications where thin oil-film corrosion protection is an asset
- Machines using a wide range of components made from various metallurgies

Always follow the equipment manufacturer's lubricant recommendations.

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Product Advantages

- Premium ISO VG 100 anti-wear hydraulic oil
- Excellent oxidation stability
- Enhanced anti-wear protection for various metallurgies
- Protects against rust and corrosion
- Controlled demulsibility for water protection
- Keep-clean properties reduce deposits and sludge
- Low foaming tendency
- Supports long oil and filter life
- Helps reduce maintenance downtime and costs

TYPICAL PHYSICAL CHARACTERISTICS

PROPERTIES	UNIT	METHOD	MaxHydro HD 100
ISO Viscosity Grade	-	-	100
Kinematic Viscosity @ 40°C	mm^2/s	ASTM D445	95.3
Kinematic Viscosity @ 100°C	mm^2/s	ASTM D445	10.9
Viscosity Index	-	ASTM D2270	98
Copper Strip Corrosion (3 hrs @ 100°C)	-	ASTM D130	1B
FZG Gear Test (ISO 14635-1)	Fail Load Stage	A/8.3/90	12
Pour Point	°C	ASTM D97	-21
Flash Point	°C	ASTM D92	248
Foam Sequence I, II, III	ml	ASTM D892	20/0
Rust Characteristics	Procedure B	ASTM D665	Pass

The values shown are typical characteristics and may vary within normal manufacturing tolerances.

Health and Safety

MAXFLUID MaxHydro HD 100 is a high-performance anti-wear hydraulic oil intended for professional industrial and marine hydraulic applications. Under normal operating conditions and when handled correctly, the product is not expected to present significant health or safety hazards.

Avoid prolonged or repeated skin contact and prevent contact with eyes. Wear appropriate personal protective equipment (PPE), including protective gloves and safety glasses, when handling the product. Ensure adequate ventilation in enclosed areas and avoid inhalation of oil mists.

Store in tightly sealed containers in a cool, dry, and well-ventilated area away from direct sunlight, heat sources, and incompatible materials. Prevent spills from entering drains, waterways, or soil.

For detailed information regarding safe handling, storage, transportation, and disposal, refer to the latest Safety Data Sheet (SDS) for MAXFLUID MaxHydro HD 100.

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