

TERRA H



GENERAL DESCRIPTION

TERRA H hydraulic oils are premium environmentally responsible hydraulic fluids designed to provide exceptional performance in hydraulic and circulation systems. These vegetable based formulations have been engineered to meet or exceed the performance requirements of most hydraulic pump and system manufacturers, while satisfying the rigorous criteria for biodegradability and toxicity. They offer the anti-wear and film strength characteristics necessary for hydraulic systems operating under high load and high pressure. TERRA H hydraulic oils are inhibited for excellent protection against rust and corrosion. In addition to their excellent performance capability, TERRA H hydraulic oils satisfy the requirements for ultimate biodegradability and non-toxicity making them an excellent choice for hydraulic and circulation systems operating in environmentally sensitive areas. Base oils and additives in these products pass and exceed the acute toxicity (LC-50) criteria adopted by the U.S. Fish and Wildlife Service and the U.S. EPA. TERRA H hydraulic oil meets the definition of a bio-based lubricant as outlined in section 9001 of The Farm Security and Rural Investment Act (FSRIA) of 2002 (Public Law 107-171/ HR 2642) and qualifies for preferred procurement by U.S. Federal Agencies as set forth in FSRIA section 9002

August 22, 2012

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PRODUCT DATA SHEET

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NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suit ability. Product typical this publication are current as of November 24, 2010.

Physical Properties

ENVIRONMENTALLY FRIENDLY LUBRICANT

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TERRA H	32	46	68
ISO Grade	32	46	68
Specific Gravity	0.875	0.877	0.888
Viscosity			
@ 40°C, cSt	31.3	43.5	64.6
@ 100°C, cSt	6.80	9.80	12.73
Viscosity Index	185	220	201
Flash Point, °F (°C)	460 (238)	470 (243)	485 (252)
Fire Point, °F (°C)	505 (263)	510 (266)	520 (271)
Pour Point, °F (°C)	-40 (-40)	-35 (-37)	-30 (-34)
FZG Gear Test, DIN 51354	12	12	12
4-Ball Wear, ASTM D 4172, mm	0.38	0.35	0.34
Biodegradation Classification, ASTM D 5864	ultimate	ultimate	ultimate
Emulsion Tendency ASTM D1401	PW1 40/40/0 (10)	PW1 40/40/0 (10)	PW1 40/40/0 (10)