

## ELBA ENVIRO H SERIES

### ELBA BIODEGRADABLE HYDRAULIC OIL

Elba Enviro H Series hydraulic oils are premium environmentally responsible hydraulic fluids designed to provide exceptional performance in hydraulic and circulation systems. These biosynthetic 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. Elba Enviro H hydraulic oils are inhibited for excellent protection against rust and corrosion. In addition to their excellent performance capability, Elba Enviro 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.

Elba Enviro H Series hydraulic oils meet the definition of a biobased 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. Elba Enviro H Series complies with the “biodegradable”, “minimally-toxic” and “not bio-accumulative” standards as defined in Appendix A of the 2013 Vessel General Permit issued by the United States Environmental Protection Agency.

Physical Properties				
Products	H-32	H-46	H 68	H-100
ISO Grade	32	46	68	100
Viscosity				
@ 40°C, cSt	31.0	43.8	64.2	92.4
@ 100°C, cSt	6.8	9.7	12.6	16.8
Viscosity	187	215	199	199
Index	0.875	0.877	0.888	.900
Specific Gravity	460 (238)	470 (243)	485 (252)	491 (255)
Flash Point, °F (°C)	505 (263)	510 (266)	520 (271)	536 (280)
Fire Point, °F (°C)	- 40 (-40)	-35 (-37)	-30 (-34)	-30 (-34)
Pour Point, °F (°C)	0.38	0.35	0.34	0.35
4-Ball Wear, mm	12	12	12	12
FZG Gear Test,	40/40/0 (10)	40/40/0 (10)	40/40/0 (10)	40/40/0 (10)
Emulsion Tendency	ultimate	ultimate	ultimate	ultimate
	Pw1	Pw1	Pw1	Pw1
	Yes	Yes	Yes	Yes

Prior to transitioning equipment on board vessels to Enviro H Series; the ship owner/operator should verify with the equipment manufacturer that the sealing system is compatible for use with an EAL.

Enviro H Series lubricants do not produce an iridescent appearance (sheen) on the surface of the water when tested in accordance with the U.S. Coast Guard Static Sheen Test.

#### For Technical, Quality or Product Safety Questions Please Contact:

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The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

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