

ELBA ENVIRO EP GEAR OIL SERIES

BIODEGRADABLE EP GEAR LUBRICANT

Elba Enviro EP Gear Oils are environmentally responsible lubricants designed for the protection of gears and bearings in systems where high temperature and/or extreme pressure conditions exist. This biosynthetic formulation is recommended for lubricating heavy duty spur, helical, bevel, and worm gear configurations, subject to heavy loading or shock loading. Elba Enviro EP Gear Oils meet or exceed the following performance requirements:

U.S. Steel 224

- ▶ AGMA 9005/250.04
- ▶ DIN 51517, Part 3
- ▶ David Brown DB S1.53.101
- ▶ Cincinnati Machine E.P.

Classified as ultimately biodegradable (Pw1) and non-toxic, Elba Enviro EP Gear Oils are ideal for equipment operating in environmentally sensitive areas. Elba Enviro EP Gear Oils 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	EP-150	EP-220	EP-320	EP-460
ISO Grade, Approximate	150	220	320	460
AGMA #, Approximate	4 EP	5 EP	6 EP	7 EP
Viscosity				
@40°C, cSt	131	166	260	382
@100°C, cSt	20	24.1	34	49
Viscosity Index	175	177	182	191
Specific Gravity	0.900	0.903	0.900	0.908
Flash Point °F(°C)	550(288)	536(280)	536(280)	536(280)
Pour Point °F(°C)	-22(-30)	-18(-28)	-14(-25)	-8(-22)
Copper Corrosion	1A	1A	1A Pass	1A Pass
Rust Test	Pass	Pass	70	70
Timken OK, lbs	70	70	0.3	0.3
Four-Ball Wear	0.3	0.3		
Four-Ball EP				
Weld Point (kg)	250	250	250	250
Four-Ball EP Load				
Wear Index	47.86	47.86		
FZG Gear Test	12	12	47.86	47.86
Biodegradation	ultimate	ultimate	12 inherent	12 inherent
Classification,	Pw1	Pw1		
VGP/EAL Compliant	Yes	Yes	Yes	Yes

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

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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