

Marine lubricants.

Sterna Bio



Synthetic hydraulic EAL (environmentally acceptable lubricant) fluid specially designed for vessel sterntubes. It complies with VGP 2013 legislation.

> Use

- Product recommended for hydraulic systems operating under harsh conditions, requiring high anti-wear properties and a high viscosity index that is stable over time.
- Particularly recommended when there is risk of water contamination in order to protect the environment.

> Benefits

- Biodegradability. Minimizes the effects of environmental contamination.
- Naturally high viscosity index. Works over a wide range of temperatures.
- Excellent lubricant, anti-wear, and anticorrosion properties.
- Compatible with the gaskets used in hydraulic circuits (Vito, Perbunan, NBR nitrile, Neoprene, silicone, etc.).

> Specifications

- VDNA 24568 HEES class
- ISO 15380 HEES class
- EAL type for compliance with VGP 2013

> Physical and chemical properties

Parameter	Units	Method	Sterna
Density 15°C	kg/l	D-4052	0.908
Flash point COC	°C	D-92	>300
Pour point	°C	D-97	-42
Viscosity at 40 °C	cSt	D-445	100
Viscosity at 100° C	cSt	D-445	18.1
Viscosity Index	-	D-2270	202
Operating temperature range	-	D-665	-20 to 90
Biodegradability after 21 days	%	CEC-L-33-aA-93	>90
FZG, fail stage, A/8.3/90	-	DIN 51354	11

> Health & safety and environment

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product as per applicable legislation.

The typical values of the characteristics appearing in the table are average values given for guidance purposes only and do not constitute a guarantee. These values may be modified without any prior warning.