Lubmarine

Bioneptan 100

Synthetic biodegradable oil for stern tubes.

APPLICATIONS
Environmentally Acceptable Lubricant (EAL) as defined in the US 2013 Vessel General Permit (VGP).
Bioneptan is particularly recommended to lubricate sliding rolling bearings of stern tube in order to minimize environmental impacts.

FEATURES AND BENEFITS
Bioneptan is designed for use when incidental spillage in environmentally sensitive areas may occur.
Bioneptan is a range of high quality synthetic biodegradable lubricant, with outstanding anti-wear and anti-corrosion properties, high viscosimetric performances and good low temperature behaviour offering a very wide range of operating temperatures.

SPECIFICATIONS AND APPROVALS			
✔	US Vessel General Permit Compliant	✔	Sperry Marine
✔	KEMEL	✔	SKF Marine
✔	Wärtsilä Propulsion	✔	Lagersmit
✔	MAN Alpha Propeller Systems	✔	Aegir
✔	Nanjing High Accurate Marine Equipment		

TECHNICAL DATA : BIONEPTAN 100			
CHARACTERISTICS	METHODS	UNITS	TYPICAL VALUES*
ISO Grade	–	–	100
Density at 15°C	ISO 3675	kg/m³	930
Kinematic Viscosity at 40°C	ISO 3104	mm²/s	100
Kinematic Viscosity at 100°C	ISO 3104	mm²/s	18.1
Viscosity Index	ISO 2909	–	>170
Flash Point (COC)	ASTM D 92	°C	>250
Pour Point	ISO 3016	°C	- 40
Biodegradability	OECD 301 B	%	>60
Foaming	ISO 6614	ml/ml	0/0

*The specifications above are for illustrative purposes and communicated for information only.

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CUSTOMER BENEFITS

✔	Compatible with the main common seals: VITON, NITRILE NBR and new bioseal.
✔	Environmentally Acceptable Lubricants (EAL) for 2013 Vessel General Permit (VGP).
✔	High natural viscosity index gives Bioneptan a wide temperature operating window (-20°C to 80°C).

GENERAL RECOMMENDATIONS

COMPATIBILITY

Compatibility should be checked.

Please consult your Lubmarine Lubrication Engineer should you have any questions.

STORAGE

This product should be stored under cover in clean, dry conditions and protected from frost.

Recommended storage temperature range is 5°C to 50°C.

Drums that are stored on deck should be raised on pallets and covered to protect from the elements.

COMPLIMENTARY PRODUCTS AND SERVICES

✔	LubDiag – Oil Analysis – Laboratory based used oil analysis program.
✔	LubInsight – Suite of onboard testing equipment.
✔	LubSkills – Lubmarine Engineers are on hand at worldwide locations to assist with lubrication concerns.
✔	Lube On Ship – Visualize your lubricants needs aboard Lubmarine's innovative virtual vessel. lubmarine.totalenergies.com/lube-on-ship

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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in force can be obtained via your Lubmarine technical advisor or from ms-sds.totalenergies.com

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