

HYDROX 550 and HYDROX 21



DESCRIPTION

HYDROX 550 and HYDROX 21 are mineral based lubricants which provide an excellent level of lubrication in both neat and emulsion forms.

APPLICATIONS

HYDROX 550 and HYDROX 21 have been specifically designed for use in sterntube and stabilizer applications where there is potential for fluid loss or water ingress to occur. Designed primarily for use where lip type seals and other circulatory oil feed systems are in operation. HYDROX 550 is also recommended for use as a combined lubricant and hydraulic oil for certain controllable pitch propeller systems.

FEATURES

- HYDROX 550 and HYDROX 21 will absorb any sea or fresh water which may enter the sterntube to form a relatively fluid emulsion which remains stable and therefore reduces the risk of free water being present in the sterntube. Both products provide an excellent level of lubrication in both neat and emulsion forms. Conventional oils do not emulsify in the same way and tend to separate, exposing components to free water and potential wear damage.
- HYDROX 550 and HYDROX 21 are compatible with most commonly used engine oils and can therefore be introduced by adding to the existing sterntube oil using the normal top up procedure.
- Both products will absorb a very high amount of water. Above 10% water content, it is recommended that some of the emulsion is drained from the system and fresh lubricant added.
- HYDROX 550 is the viscosity grade generally recommended by the bearing and seal manufacturers for regular running in the sterntube, where there is potential for sea or fresh water contamination to the lubrication system.
- HYDROX 21 is recommended for use particularly where vessels require emergency assistance in reducing the leakage past a damaged or worn AFT seal. It has proven very effective in reducing the rate of leakage and in the majority of cases a reduction of 70% can be achieved, but cannot be guaranteed in all cases.
- HYDROX 21 is most effective when used to completely fill the sterntube system. It is compatible with most engine oils commonly used in the sterntube and can therefore be introduced by top up procedure, adding HYDROX 21 to the existing sterntube oil. When initially introducing HYDROX 21, we recommend a minimum 50% of the sterntube oil is changed to HYDROX 21.

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Accredited to the ISO 9001
Quality Standard and the
ISO 14001 Environmental
Management Standard



HYDROX 550 and

HYDROX 21



BENEFITS

- Absorbs any sea or fresh water entering the sterntube to form a relatively fluid emulsion which remains very stable and thereby reduces the risk of free water being present in the sterntube.
- Excellent lubrication under both the boundary and hydrodynamic lubricating conditions encountered in a sterntube.
- Corrosion protection is maintained even during prolonged standing and the stable emulsion ensures that a lubricating film is present between the propeller shaft and bottom of the bearing at the critical time of start-up.
- Compatible with the metals commonly used in sterntubes.
- Good compatibility with the rubbers used for lips seal systems and approved by many of the major lip and face stern seal manufacturers.
- Compatible with most engine oils commonly used in the sterntube and can therefore be added to existing oil through a top up procedure.
- HYDROX 21 is expected to be effective in reducing the rate of oil leakage past a damaged aft seal.

TYPICAL CHARACTERISTICS AND PROPERTIES

HYDROX	550	21	TEST METHOD
Appearance	Clear / Golden Brown	Clear / Golden Brown	Visual
Viscosity @ 40°C (cSt)	73	275	ASTM D7042
Viscosity Index	100	100	ASTM D2270
Density @ 15°C (kg/l)	0.884	0.895	ASTM D4052
Pour Point (°C)	< - 25	< - 5	ASTM D7346
Flash Point (COC) (°C)	> 180	> 180	IP 523
Shelf Life	7 years in original sealed containers stored out of direct sunlight		

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