

# 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. A reduction of up to 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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# 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 materials used for lip 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	TEST METHOD	550	21
Appearance	Visual	--- Clear / Golden Brown ---	
Viscosity @ 40°C (cSt)	ASTM D7042	73	275
Viscosity Index	ASTM D2270	100	100
Density @ 15°C (kg/l)	ASTM D4052	0.888	0.898
Pour Point (°C)	ASTM D7346	< - 25	< - 5
Flash Point (COC) (°C)	IP 523	> 180	> 180
Shelf Life		7 years in original sealed containers stored out of direct sunlight	

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