

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 stabiliser 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 20% 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**.

BENJN R. VICKERS & SONS LTD.

Registered Office
6 Clarence Road, Leeds,
LS10 1ND, United Kingdom

Registered in England
Company No. 00130013

Tel: +44 (0)113 386-7654
Fax: +44 (0)113 386-7676
Email: techserv@vickers-oil.com
Web: www.vickers-oil.com



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

HYDROX	550	21	TEST METHOD
Appearance / Colour	Clear Golden Brown	Dark Golden Brown	
Viscosity @ 40°C (cSt)	73	275	ASTM D7042
Viscosity Index	100	100	ASTM D2270
Density @ 15°C (kg / ltr)	0.89	0.90	
Pour Point (°C)	<-25	<-5	ASTM D7346
Flash Point (SETA) (°C)	>180	>180	IP 523
Shelf Life	7 years in original containers stored out of direct sunlight		

Vickers Oils, its officers, employees and agents assume no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with Vickers Oils for the provision of this information or advice and in that case responsibility or liability is exclusively on the terms and conditions set out in that contract. These products should only be used for the applications specified. The supplier cannot accept responsibility if they are used in any other applications.

BENJN R. VICKERS & SONS LTD.

Registered Office
6 Clarence Road, Leeds,
LS10 1ND, United Kingdom

Registered in England
Company No. 00130013

Tel: +44 (0)113 386-7654
Fax: +44 (0)113 386-7676
Email: techserv@vickers-oil.com
Web: www.vickers-oil.com



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