



DET NORSKE VERITAS TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. M-11173

This Certificate consists of 2 pages

This is to certify that the

Stern Tube Bearing Material

712.30

with type designations

**VESCONITE, VESCONITE HILUBE, VESCONITE
SUPERSTAVES, SUPERCLAD**

Manufactured by

Vesco Plastics

VIRGINIA, South Africa

is found to comply with

Det Norske Veritas' Rules for Classification of Ships/High Speed and Light Craft

Application

The bearing material is approved for use as water lubricated stern tube bearing with length/breadth ratio of not less than 2 : 1. Maximum nominal bearing pressure 6 bar.

Place and date

Høvik, 2009-06-16

for Det Norske Veritas AS

This Certificate is valid until

2013-06-30

Tomas Heber Tronstad
Head of Section

Local Office
DNV Durban

Hans-Kristian Eriksen
Surveyor

Product description

Synthetic stern tube bearing material for water-lubricated tailshaft.

Application/Limitation

Limitations given in Vesconite Design Manual MDM 1/98 and limitations mentioned on the front page of the certificate.

Type Approval documentation

Tests carried out

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Certificate retention survey

For retention of the Type Approval, DNV surveyor shall perform a survey every second year and before expiry date of this certificate to verify that the conditions of the type approval are complied with.

END OF CERTIFICATE

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

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