

COPY
LLOYD'S REGISTER OF SHIPPING

No. D-799



Port Yokohama

23rd April, 1966

Fee: L. 2.0-0-0-0
Exp: L. 1-0-0-0
S.A. Fee:

H

This is to Certify that

H. TERASHIMA

the undersigned Surveyor to this Society did at the request of Messrs. Dodwell & Co., Ltd., Yokohama, Owners Agents, attend on board the M.S. "PHOENICIAN STAR" 4925 tons gross of Panama whilst afloat at Yokohama on the 2nd April 1966 and subsequently for the purpose of ascertaining the nature and extent of Damage to the forward generator armature shaft stated due to a unknown cause on the 30th March 1966 at Kawasaki.

For further particulars please see the ship's log books.

It was stated that the generator armature shaft was broken and temporarily repaired at Karachi for emergency use only and the classification surveyor of that port recommended that the armature shaft be renewed on arrival at Yokohama.

The armature shaft was renewed at this time by H.K.K., Asano Dock, Yokohama. Approx. 13 hours running after completion of the repair the armature shaft was stated to have again broken at the same position as previously.

A calculation of the torsional vibration showed that the critical speed occurred at 812 RPM which is near the generator rated revolution of 800 RPM.

In the opinion of the undersigned the cause of damage is considered to be attributable to excessive stress caused by torsional vibration due to operation near the critical speed.

Upon examination the following damage was found and repairs recommended without prejudice to the terms and conditions of insurance.

Found

The forward generator (30 KW) armature shaft broken.

Recommended

The armature shaft to be renewed and the design modified to avoid operation near the critical speed.

The recommendations for the above repairs including the removal and replacement of parts for access, necessary tests, paintings for new and disturbed works were made with a view to placing the ship in a similar condition to that which prevailed before the alleged casualty.

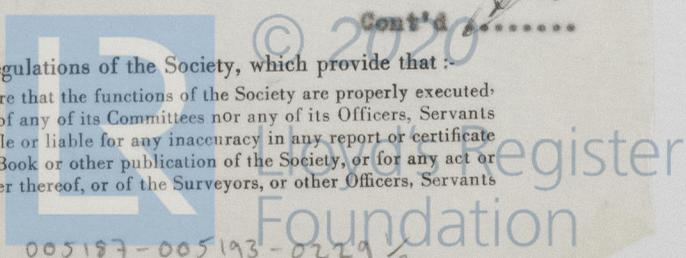
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This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that :-

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(Rpt. 10) 8,65 KOB

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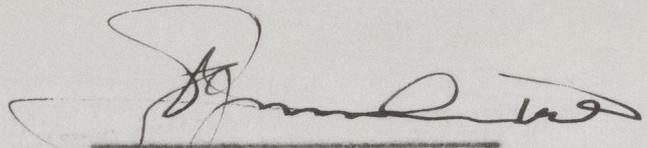


YOKOHAMA

D-799

M.S. "PHOENICIAN STAR" (Sheet No.2)

Calculation of torsional vibration and a modified design of armature shaft were made by N.K.K., Asano Dock, Yokohama but the repairs were deferred to the end of May 1966 at the Owner's request.



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