

COPY OF AIR LETTER.

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

71, Fenchurch Street, E.C.3

Enclosures

6th December, 1951.

Dear Sir,

Classn (S)

EJB

s.s. "MOBILUBE"
(Newport News Rpt.No.6497)

I have to acknowledge the receipt of your letter of the 16th ultimo with enclosed torsional vibration calculations in duplicate received from the Newport News Shipbuilding and Dry Dock Company.

In reply, I have to inform you that the torsional vibration characteristics of the shafting installation of the main machinery have been examined in conjunction with the Engine Builders' calculations, and will be approved for a service speed of 100 R.P.M.

I have to point out, however, that the calculations indicate a possibility of gear hammer in the LP gearing in way of the 1-node 4th order critical speed calculated to occur at 53 R.P.M.; if such gear hammer does in fact occur and is considered excessive a restricted range of revolutions will be required in way of the critical speed.

It is noted from the report that all was found satisfactory after a sea trial of eight hours duration, and it is, therefore, concluded that there was no noticeable gear hammer. I shall, however, be glad to receive confirmation on this point, together with the Surveyors' recommendations for the limits of the restricted range if required.

One set of calculations is returned herewith.

Yours faithfully,

Clerk to the
Classification Committee.

Wm. Bennett, Esq..

Lloyd's Register
Foundation

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