

COPY (E)
Lloyd's Register of Shipping,

71, Fenchurch Street, E.C.3.

12th November, 1946.

Dear Sir,

"C" Type Coasters (Diesel)
Enterprise Main Engines - torsional vibration

I duly received your letter of the 23rd ultimo enclosing a copy of one from the Enterprise Engine and Foundry Co., the contents of which are noted.

With regard thereto, I have to acquaint you that the torsional vibration characteristics of the shafting installation of this main machinery have been examined in conjunction with the Firm's calculations and it is noted that the vibration stress in the screwshaft arising from the flank of the 4th order critical speed at 16 per cent above the service speed of 300 R.P.M. is considerably in excess of the stress of $\pm 5,300$ lbs/sq.in. given in the Guidance Notes.

In the circumstances it is considered the service speed should be reduced to 290 R.P.M. before approval can be given. This restriction will not be required if torsionograph records indicate that the vibration stress in the screwshaft does not exceed the value quoted above.

Copies of any torsionograph records taken should be forwarded to this Office for examination.

Yours faithfully,

Secretary.

The Principal Surveyor,
NEW YORK.



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Foundation

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