

COPY.

# Lloyd's Register of Shipping.

71, Fenchurch Street, E.C.3.

10th July, 1940.

## ENCLOSURES

Dear Sirs,

S/S "EMPIRE ENDURANCE".

E.

I am in receipt of your letter of the 6th instant submitting for consideration plans of the main shafting for the above vessel and note the particulars furnished.

In reply I have to inform you that with triple expansion steam reciprocating engines combined with exhaust steam turbines for main propelling purposes on ocean-going service having diameters of cylinders 870 mm., 1340 mm. and 2200 mm., stroke 1450 mm., boiler working pressure 14.5 Kg. per sq. cm., screwshaft fitted with continuous liner, diameter of propeller 6350 mm. and developing a total I.H.P. of 6,500 at 78 R.P.M. of the propeller shafting, the following sizes of shafting will be approved, viz:-  
Crankshaft, pins 472 mm., journals 462 mm., Thrustshaft 620 mm. with central bore of 432 mm., Turbine Wheel Shaft 532 mm. with central bore of 432 mm., Intermediate shaft 438 mm., Screwshaft 477 mm.

The shaft of diameter 412 mm., connecting the reciprocating engine to the main line of shafting is slightly less than required by the Rules but since it appears from the plans that the material is of special quality the shaft will be accepted provided it be specially examined and found sound and free from signs of strain.

The plans of shafting will also be approved and are returned herewith.

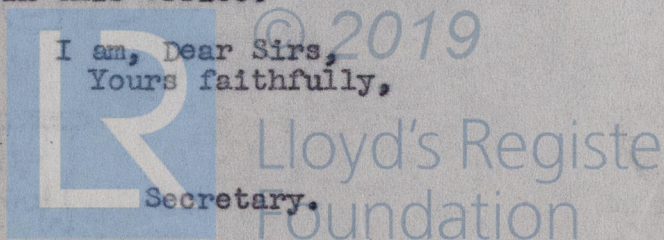
With reference to your enquiry I have to state that copies of all future plans forwarded for consideration should be furnished for reference in this Office.

I am, Dear Sirs,  
Yours faithfully,

Secretary.

The Surveyors,

MIDDLESBROUGH.



W165-0135