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Lloyd's Register of Shipping.

71, Fenchurch Street, E.C. 3.

Enclosure.

Ref:- S.O.35263/4.

26th August, 1937.

Dear Sirs,

E.

Messrs. ~~Bartram & Sons'~~ Yard No. 279.
Messrs. J.L. Thompson's Yard No. 589.
Messrs. White's Marine Engineering Co's
Engines 14C and 15C.

With reference to your letter of the 13th and my reply of the 16th instant respecting the above Contracts, I have to acquaint you that particulars of these installations have now been received from the Engine Builders.

The plan of gearing has been examined and I have to inform you that with double compound steam reciprocating engines for open sea service, having 2 H.P. cylinders 10.5/8" or 10.3/4" diameter, 2 L.P. cylinders 21.1/2" diameter, by 13" stroke, working pressure 220 lb. per sq. inch, working in conjunction with an exhaust steam turbine on the White's system, developing a combined equivalent I.H.P. of 2000, consisting of 1000 I.H.P. at 310 revolutions per minute and 1000 equivalent I.H.P. at 3480 revolutions per minute developed by the reciprocating engine and steam turbine respectively, and revolutions per minute of the propeller 62, the following sizes of main gearing shafting will be approved, viz:-

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Messrs. Bartram & Sons' Yard No. 279.
Messrs. J.L. Thompson's Yard No. 589.

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Main Wheel..... 13.75".
Turbine 1st reduction pinion.. 4.75".
Turbine 1st reduction wheel... 9.5" with 5.5" hole.
Turbine 2nd reduction quill... 5.25".
Turbine 2nd reduction pinion.. 9.5" with 5.5" hole.
Reciprocating engine pinion... 8.875" with 6" hole.

The plan of arrangement of gearing, as shown and amended, will also be approved.

I have to point out, however, that the size of the reciprocating engine quill shaft now proposed is the same as that used for previous engines of smaller size and power, and does not meet the requirements of the Society's Rules.

If the material of this shaft has a tensile strength of 55/65 tons per sq. inch, as in previous similar cases, the diameter of the shaft should be not less than 5.7/16" instead of 5.3/8" as proposed.

One copy of plan No. 48020 is returned herewith.

I am, Dear Sirs,

Yours faithfully,

The Power Plant Co. Ltd.,
WEST DRAYTON,
MIDDLESEX.



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(2/2) W143-0125