

W143-0109

Shipbuilders: Messrs. *Bartham & Sons*

Yard No. 279

Engineers: Messrs. *White's Marine Engineering Co*

Engine No. 140

It is submitted that the plan of ~~with~~ double compound steam reciprocating engines for ~~merit approval~~ for open sea service, having 2 H.P. cylinders $10\frac{9}{16}$ " provided diameter, 2 L.P. cylinders $21\frac{5}{16}$ " diameter, by 13" stroke, working pressure 240 lbs/sq", working in conjunction with an exhaust steam turbine on the White's system, developing a combined equivalent I.H.P. of 1800, consisting of 950 I.H.P. at 315 revolutions per minute and 850 equivalent I.H.P. at 3540 revolutions per minute developed by the reciprocating engine and steam turbine respectively, and 63 revolutions per minute of the propeller, ~~having a~~ diameter of 18'-0" ^{propeller} and screw shaft fitted with continuous lines.

The following sizes of shafting merit approval, viz:-

Thrust shaft.	$13\frac{1}{4}$ " diameter
Intermediate "	$12\frac{1}{8}$ " "
Screw "	$13\frac{5}{8}$ " "

The plans showing the details of the ~~and~~

~~and~~ straight shafting also merit approval

Further the size of the crankshaft, viz $7\frac{3}{4}$ " diameter, approved in the Secretary's letter of the 8th ^{of June}, also merits approval for engines having particulars as stated above.

The amended particulars of these engines are noted.

Return 2 plan.

Retain copy.

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The Surveyors concerned and not already advised should be informed.

Lr 4/11

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