

Shipbuilders: Messrs. *Short Bros.*

Engineers: Messrs. *White's Mar. Eng. Co.*

Yard No. *450*

Engine No. *11c*

It is submitted that the plan of ~~with double compound~~  
~~steam reciprocating engines for open sea merit approval~~  
for service, having 2 H.P. cylinders  $10\frac{1}{2}$ " diam. and 2  
provided L.P. cylinders  $19\frac{1}{2}$ " diam. by 13" stroke, working  
pressure 230 lb/sq. in., combined with an exhaust steam turbine  
on the White's system, developing a combined equivalent  
I.H.P. of 1660, consisting of 930 I.H.P. at 295 rpm developed by the  
reciprocating engine, and 730 equivalent I.H.P. at 3500 rpm developed  
by the exhaust turbine, rpm of propeller 64, diam of propeller  
17 ft 7 ins, and screw shaft with continuous liner, the following  
sizes of shafting merit approval, viz:

Thrust  $12\frac{1}{2}$  ins.

Intermediate  $11\frac{7}{8}$  ins.

Screw  $13\frac{3}{8}$ " reduced to  $12\frac{1}{2}$ " at forward end.

*Dis 11/86*  
Return plan.

Retain copy.

Im. 7, 30. T.

The plan showing details of thrust, intermediate and  
screw shafting also merits approval.

*W. J. H.*

*J. H. H.* 12/11/36