

Messrs.A.B.Lindholmens Varv. Yard No.964.

Messrs.A.B.Gotaverken Engine Nos.1481/2.

"Ice Navigation".

**HEAVY OIL ENGINES**

IT IS SUBMITTED that with engines for main propelling purposes, having particulars as stated below, the following sizes of shafting merit approval, viz:-

Crank.	340 mm.dia. with 115 mm.dia.central hole.
Intermediate.	245 mm.dia.
Thrust.	300 mm.dia. with 115 mm.dia.central hole.
Screw.	300 mm.dia. body reduced to 280 mm.dia. at forward end.

Particulars of engines: Engine type 2 SCSA, 6 cylinders, 500 mm. dia.cylinders by 900 mm.stroke, Span of bearings 698 mm. R.P.M. 160, Maximum pressure in cylinders 49 kgs per sq.cm., M.I.P. 7 kgs per sq.cm. B.H.P. 2100, Weight of turning wheel 840 kgs., Diameter of turning wheel 1652 mm.  $GD^2$  of Balance Weights 4800 kg.M<sup>2</sup>., Diameter of propeller 3430 mm., Screw shaft without continuous liner.

The plans shewing details of crankshaft and arrangement of straight shafting also merit approval for a vessel intended to have the notation "Strengthened for Navigation in Ice", provided the steel castings be made at an approved works and tested as required by the Rules, it being noted that it is proposed to fit oil retaining glands of approved type at the after end of the stern bushes, and when these have been fitted to the Surveyor's satisfaction, the vessel will be entitled to receive the notation "O.G." in the Register Book.

It is also noted that dowel pins will not be fitted in the crankshaft and with the shrinkage allowance and yield point of the crank web material proposed, this is in order. It is concluded that the span of bearings is 698 mm as in previous similar cases and not 898 as stated in the data sheet forwarded.

Return 2 plans.  
Retain 2 copies.

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*[Signature]*  
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21.4.39.

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