

conditions whilst vessel was on speed trials on the 19th instant.

The electrical installation megger tested and particulars of survey given in Rpt 13.

A general examination made of the pumping arrangements, piping, oil fuel fittings etc.

Now Done:- Bilge suction in Engine room now connected to mud-box above platform level, with straight tail pipe. Additional direct bilge suction also fitted to auxiliary pump. Drip trays fitted under main and auxiliary daily service tanks and $1\frac{1}{4}$ " diameter air pipes fitted to these tanks, with their outlets above poop deck and their ends fitted with gauge wire diaphragms.

Other items of installation which do not comply with Rule requirements are given in letter now forwarded with this report.

Spare Gear:- Two three bladed bronze propellers and one tail shaft are supplied as spares, in addition to main and auxiliary engine spares on board in sealed boxes, the contents of which could not be checked, but are stated to be as per attached lists.

Auxiliary Engine:- Two-cylinder Heavy oil engine made by Kelly & Lewis, Melbourne, Dimensions stated to be $3\frac{1}{2}$ " dia bore, $4\frac{3}{4}$ " stroke, R.P.M. 1000, Diameter of crankshaft forward bearing $2-9/16$ ", bearing between cranks 2.873 ", bearing at flywheel end 2.873 " dia. Span of bearings between forward and centre bearing $6-31/32$ ", between centre and flywheel end bearing $7-7/16$ ". No other particulars obtainable.

This engine drives a 4 K.W. generator by means of 3 "V" belts from flywheel, a two stage air compressor by means of clutch on end of engine shaft and a rotary bilge pump by means of a clutch from the generator shaft:- all of which have now been tested under working conditions and found satisfactory.

Air Receivers:- Two port and two starboard, each approximately $17\frac{1}{4}$ " outside dia. and are stated to be 150 litres capacity and tested to 720 lbs. They were supplied by the Makers of the Engines, British Auxiliaries Ltd., Glasgow.

Main Engines:- Two 5 cylinder Atlas Polar Heavy oil Engines 180 m.m. bore by 300 m.m. stroke 200 B.H.P. at 450 R.P.M.

No plans were available for these engines other than print M.U. 165 now forwarded. Makers Agents state that compressor pressure is 554 lbs per sq. inch. Mean indicated pressure 5.23 Kgm / sq c.m., weight of engine without flywheel 5820 Kgm, weight of flywheel 280 Kgm, crankshaft journals dia 125 m.m, crankpin dia. 120 m.m. Further particulars could be obtained from the Makers.

To complete the Survey - All Rule requirements regarding opening up of machinery remain to be carried out.

Electrical installation survey now complete.

[Signature]



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