

REPORT ON MACHINERY.

No. 17155

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of writing Report 23 June 1917 When handed in at Local Office 28 June 1917 Port of Greenockin Survey held at Greenock, St. Margaret Date, First Survey 11th Apr 1916 Last Survey 27 June 1917
Book. (Number of Visits 106)on the Steel screw steamer "Maikar" Tons { Gross
Net
When built 1917Built at St. Margaret By whom built James & Co.Lines made at Greenock By whom made John S. Kincaid & Co. when made 1917Machinery made at Greenock By whom made John S. Kincaid & Co. when made 1917Registered Horse Power Owners J. & J. Brocklebank Ltd. Port belonging to LondonHorse Power as per Section 28 800 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted YesMACHINERY, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks ThreeDiameter of Cylinders 28" - 47 1/2" - 80" Length of Stroke 54" Revs. per minute 75 Dia. of Screw shaft 16.02 Material of screw shaft SteelIs the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tightIf the liner is in more than one length are the joints burned Yes If the liner does not fit tightly at the partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes If twoshafts are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 69"Dia. of Tunnel shaft 14.87 Dia. of Crank shaft journals 15.61 Dia. of Crank pin 16" Size of Crank webs 24" x 10 1/2" Dia. of thrust shaft underNo. of blades 16 Dia. of screw 18" - 6" Pitch of Screw 18" - 3" No. of Blades 44 State whether moveable Yes Total surface 110 sq ftDiameter of ditto 12" Stroke 24" Can one be overhauled while the other is at work YesDiameter of ditto 4 1/2" Stroke 20" Can one be overhauled while the other is at work Yes

No. and size of Suctions connected to both Bilge and Donkey pumps

In Holds, &c. Three 3 1/2" Two 2 1/2"of Bilge Injections Three sizes 10" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 2 1/2"Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible YesAre they Valves or Cocks BothAre the Discharge Pipes above or below the deep water line BelowAre the Blow Off Cocks fitted with a spigot and brass covering plate YesHow are they protected Yesall Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yesthe Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yesof examination of completion of fitting of Sea Connections 12/4/17 of Stern Tube 12/4/17 Screw shaft and Propeller 12/4/17Is it fitted with a watertight door Yes worked from Top of St. MargaretManufacturers of Steel Cottrill & SonsIs Forced Draft fitted Yes No. and Description of Boilers Three bottle ended and oneNo. of Certificate 284-1285

No. and Description of Safety Valves to

Area of each valve 12.56 Pressure to which they are adjusted 305 lb Are they fitted with easing gear YesMaterial of shell plates SteelRange of tensile strength 29 1/2 - 33 Are the shell plates welded or flanged Yes Descrip. of riveting: cir. seams 3 1/2 in 4Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 10 1/2" Lap of plates or width of butt straps 22 1/2"Working pressure of shell by rules 208 lb Size of manhole in shell 16" - 12"No. and Description of Furnaces in each boiler 8 brigman Material Steel Outside diameter 45 1/2"Description of longitudinal joint Welded No. of strengthening rings LongThickness of plates 10 1/16" Description of longitudinal joint Welded No. of strengthening rings LongWorking pressure of furnace by the rules 223 lb Combustion chamber plates: Material Steel Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 1 1/16"Working pressure by rules 202 lbWorking pressure by rules 219 lb End plates in steam space:Working pressure by rules 201 lb Material of stays SteelMaterial of Front plates at bottom SteelWorking pressure of plate by rules YesPitch of tubes 4 1/2" - 4 1/8" Material of tube plates Steel Thickness: Front 1 1/16" Back 1 1/16" Mean pitch of stays 8 1/2" - 8 1/4"Working pressures by rules 207 lb Girders to Chamber tops: Material Steel Depth andDistance apart 8 1/4" Number and pitch of stays in each 4 - 9 1/4"

Can the superheater be shut off and the boiler worked

Description of longitudinal joint Welded Diam. of rivetMaterial of flue plates Steel ThicknessEnd plates: Thickness Yes How stayed YesAre they fitted with easing gear Yes

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