

REPORT ON MACHINERY.

No. 19165

Port of Hull
 No. in Survey held at Hull + Goole Date, first Survey Mar 14th Last Survey 24th June 1907
 Reg. Book. 926 on the Steel S.S. K. Trogon (Number of Visits 26)
 Master Goole Built at Goole By whom built Goole S. B. + R. P. G. Tons { Gross 172 Net 52
 Engines made at } Hull By whom made } Charles G. Ltd when made 1907
 Boilers made at } Hull By whom made } Charles G. Ltd when made 1907
 Registered Horse Power 53 Owners Kelsall, Brothers + Buching Ltd Port belonging to Hull
 Nom. Horse Power as per Section 28 53 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 12" - 20" - 32" Length of Stroke 21" Revs. per minute 105 Dia. of Screw shaft 7.75" Material of screw shaft Iron
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube No Is the after end of the liner made water tight in the propeller boss Yes
 If the liner is in more than one length are the joints burned No If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive No
 If two liners are fitted, is the shaft lapped or protected between the liners No Length of stern bush 32 1/2"
 Dia. of Thrust shaft 5.68" Dia. of Crank shaft journals 5.96" Dia. of Crank pin 6" Size of Crank webs 11 1/2" x 4" Dia. of thrust shaft under collars 6 1/2"
 Dia. of screw 8'-9" Pitch of Screw 9'-6" 6 10'-6" No. of Blades 4 State whether moveable No Total surface 26 sq ft
 No. of Feed pumps 1 Diameter of ditto 2 1/2" Stroke 10" Can one be overhauled while the other is at work No
 No. of Bilge pumps 1 Diameter of ditto 2 1/2" Stroke 10" Can one be overhauled while the other is at work No
 No. of Donkey Engines One Sizes of Pumps 4" x 2 1/4" x 4" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 2" In Holds, &c. One 2" to tank, one 2" to hold
 No. of Bilge Injections 1 sizes 3 1/2" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 2 1/2"
 Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible 0
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line above
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes
 What pipes are carried through the bunkers Tank hold suction How are they protected wood casing
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
 Dates of examination of completion of fitting of Sea Connections 4.6.07 of Stern Tube 4.6.07 Screw shaft and Propeller 4.6.07
 Is the Screw Shaft Tunnel watertight No Is it fitted with a watertight door No worked from No

BOILERS, &c.—(Letter for record S) Manufacturers of Steel W. Beardmore G.
 Total Heating Surface of Boilers 900 sq ft Is Forced Draft fitted No No. and Description of Boilers One Cyl. Multi
 Working Pressure 160 lbs Tested by hydraulic pressure to 320 lbs Date of test 10.5.07 No. of Certificate 1559
 Can each boiler be worked separately No Area of fire grate in each boiler 24 1/2 sq ft No. and Description of Safety Valves to each boiler Two Spring
 Area of each valve 3.14 sq ft Pressure to which they are adjusted 160 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 13 1/2" Mean dia. of boilers 10'-6" Length 9'-6" Material of shell plates Steel
 Thickness 27/32" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams L. D.
 long. seams D.B.S. D.R. Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 5 3/8" Lap of plates or width of butt straps 1 1/2"
 Per centages of strength of longitudinal joint rivets 86.7 Working pressure of shell by rules 161 lbs Size of manhole in shell 16" x 12"
 plate 80.2
 Size of compensating ring 30" x 28" x 37/32" No. and Description of Furnaces in each boiler 2 plain Material Steel Outside diameter 2'-10"
 Length of plain part top 6'-3" Thickness of plates crown 21/32" Description of longitudinal joint Welded No. of strengthening rings 0
 bottom 3" bottom 32"
 Working pressure of furnace by the rules 178 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 3/8" Top 5/8" Bottom 5/8"
 Pitch of stays to ditto: Sides 8 1/2" x 8 1/2" Back 9" x 10" Top 8 1/2" x 7 1/2" If stays are fitted with nuts or riveted heads 7 nuts Working pressure by rules 164 lbs
 Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 72.75 sq ft Working pressure by rules 194 lbs End plates in steam space:
 Material Steel Thickness 7/8" Pitch of stays 15" x 15" How are stays secured D. Nuts Working pressure by rules 161 lbs Material of stays Steel
 Diameter at smallest part 2 5/16" Area supported by each stay 225 sq ft Working pressure by rules 194 lbs Material of Front plates at bottom Steel
 Thickness 7/8" Material of Lower back plate Steel Thickness 7/8" Greatest pitch of stays 14" x 9" Working pressure of plate by rules 191 lbs
 Diameter of tubes 3" Pitch of tubes 4 5/8" x 4 3/8" Material of tube plates Steel Thickness: Front 7/8" Back 13/16" Mean pitch of stays 9"
 Pitch across wide water spaces 13 1/2" Working pressures by rules 161 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 1/2" x 1 1/2" Length as per rule 2'-2" Distance apart 7 1/2" Number and pitch of stays in each 2 - 8 1/2"
 Working pressure by rules 246 lbs Superheater or Steam chest; how connected to boiler No Can the superheater be shut off and the boiler worked separately No
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

