

REPORT ON MACHINERY

No. 24521

Received at London Office

Date of writing Report 10 When handed in at Local Office 27.12.11 Port of Hull
 No. in Survey held at Hull Date, First Survey July 27th Last Survey Dec 11th 1911
 Reg. Book. 33 Puff. on the 1/2 Trawler Eccles Hill (Number of Visits 29)
 Master Built at Selby By whom built Lochrane & Sons Tons Gross 226 Net 89
 Engines made at Hull By whom made Amos & Smith Ltd when made 5
 Boilers made at 5 By whom made 5 when made 5
 Registered Horse Power Owners G. Nothman S.P. Fooking & Co. Port belonging to Hull
 Nom. Horse Power as per Section 28 51. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines *Vertical triple expansion* No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 10-17-28 Length of Stroke 24 Revs. per minute 113 Dia. of Screw shaft as per rule 7.2 as fitted 7.4 Material of screw shaft Iron
 Is 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 tight in the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 Yes If two liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 32
 Dia. of Tunnel shaft as per rule 5.76 as fitted 6.2 Dia. of Crank shaft journals as per rule 6.54 as fitted 6.2 Dia. of Crank pin 6.2 Size of Crank webs 27 x 4 1/2 Dia. of thrust shaft under collars 6 3/4 Dia. of screw 10.0 Pitch of Screw 7.6 mean No. of Blades 4 State whether moveable No Total surface 31.4
 No. of Feed pumps one Diameter of ditto 2 1/2 Stroke 11 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps one Diameter of ditto 2 1/2 Stroke 11 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines one Sizes of Pumps 6 x 3 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2-2 (For & aft) In Holds, &c. 3-2 For hold main lower hull
 No. of Bilge Injections 1 sizes 3 Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 Geyser
 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 Iron
 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 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 10.10.11 of Stern Tube 10.10.11 Screw shaft and Propeller 10.10.11
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel *Gesellschaft. Guis. Lunk. & Co.*
 Total Heating Surface of Boilers 8724 Is Forced Draft fitted No No. and Description of Boilers 1. S.F. Multitubular
 Working Pressure 200 lb. Tested by hydraulic pressure to 400 lb. Date of test 11.11.11 No. of Certificate 1855
 Can each boiler be worked separately Area of fire grate in each boiler 254 No. and Description of Safety Valves to each boiler 2 Spring loaded Area of each valve 3.14/6 Pressure to which they are adjusted 205 lb. Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 7 Mean dia. of boilers 11.0 Length 9.6 Material of shell plates Steel
 Thickness 1 Range of tensile strength 29.33 lb. Are the shell plates welded or flanged No Descrip. of riveting: cir. seams 8 A Lap long. seams 8 B S in g Diameter of rivet holes in long. seams 1/8 Pitch of rivets 7 1/2 Lap of plates or width of butt straps 16 1/2
 Per centages of strength of longitudinal joint rivets 98.5 plate 85 Working pressure of shell by rules 204 Size of manhole in shell 16 x 12
 Size of compensating ring 3 1/2 x 4 1/2 x 1 No. and Description of Furnaces in each boiler 2 plain Material Steel Outside diameter 3.3
 Length of plain part top 6.2 bottom 5.7 Thickness of plates crown 4.7 bottom 7.2 Description of longitudinal joint welded No. of strengthening rings
 Working pressure of furnace by the rules 203 Combustion chamber plates: Material Steel Thickness: Sides 5 Back 5 Top 5 Bottom 13
 Pitch of stays to ditto: Sides 7 1/2 x 9 Back 8 1/2 x 7 1/2 Top 9 x 7 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 202
 Material of stays Steel Diameter at smallest part 7/8 x 2.39 Area supported by each stay 90.5 Working pressure by rules 238 End plates in steam space: Material Steel Thickness 1 Pitch of stays 4 1/2 x 15 How are stays secured Backwash Working pressure by rules 218 Material of stays Steel
 Diameter at smallest part 5.05 Area supported by each stay 218.4 Working pressure by rules 240 Material of Front plates at bottom Steel
 Thickness 1 Material of Lower back plate Steel Thickness 1 Greatest pitch of stays 3 1/2 x 7 1/2 Working pressure of plate by rules 277
 Diameter of tubes 3 1/2 Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates Steel Thickness: Front 1 Back 3 Mean pitch of stays 9 1/2
 Pitch across wide water spaces 13 1/2 Working pressures by rules 203 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 1/2 x 1/2 Length as per rule 2.7 1/2 Distance apart 7 1/2 Number and pitch of stays in each 209
 Working pressure by rules 204 Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately
 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



