

REPORT ON MACHINERY.

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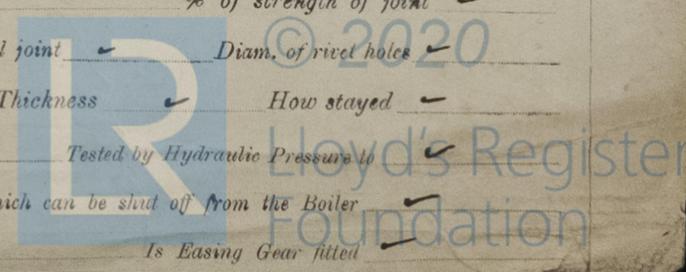
FRI. 10 MAR. 1918

Date of writing Report 19 When handed in at Local Office 9/5/18 Port of Hull
 No. in Survey held at Hull Date, First Survey 12-10-17 Last Survey 6-5-1918
 Reg. Booh. on the Steam Trawler "William Brady" (Number of Visits 40) Gross Tons 290 Net 119
 Master Built at Beverley By whom built Cook, Welton & Gemmell Ltd. When built 1918-
 Engines made at Hull By whom made Amos & Smith Ltd. No 2935 when made 1918
 Boilers made at Hull By whom made Amos & Smith Ltd. No 2935 when made 1918
 Registered Horse Power Owners British Admiralty Port belonging to ✓
 Nom. Horse Power as per Section 28 87 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 12½, 21, 35 Length of Stroke 26 Revs. per minute 114 Dia. of Screw shaft as per rule 7.56 Material of Iron as fitted 7.58 screw shaft
 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 ✓ 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 ✓ If two liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 34
 Dia. of Tunnel shaft as per rule 6.57 ✓ as fitted 6¾ ✓ Dia. of Crank shaft journals as per rule 6.9 ✓ as fitted 7.8 ✓ Dia. of Crank pin 7½ ✓ Size of Crank webs 14x4 9/16 ✓ Dia. of thrust shaft under collars 7½ ✓ Dia. of screw 9-6 ✓ Pitch of Screw 11-12 ✓ No. of Blades 4 State whether moveable no Total surface 35½ ft
 No. of Feed pumps 2 ✓ Diameter of ditto 2½ ✓ Stroke 12 ✓ Can one be overhauled while the other is at work yes ✓
 No. of Bilge pumps 2 ✓ Diameter of ditto 2½ ✓ Stroke 12 ✓ Can one be overhauled while the other is at work yes ✓
 No. of Donkey Engines 2+3 ejecta Sizes of Pumps 6x3x6 & 6x4x6 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room One 2" fore, one 2" aft, & one 2" bilge aft. In Holds, &c. One 2" from fore hold, one 2" from slush well, also separate 2" ejecta suction from slush well.
 No. of Bilge Injections 1 sizes 3½ Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2" & ejecta
 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 none
 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 Forward suction How are they protected wood covering.
 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 ✓
 Is the Screw Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record S ✓) Manufacturers of Steel Messrs John Spencer & Sons Ltd. ✓
 Total Heating Surface of Boilers 1590 ft Is Forced Draft fitted no No. and Description of Boilers one single ended ✓
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs. Date of test 9-3-18 No. of Certificate 3278.
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 48.75 ✓ No. and Description of Safety Valves to each boiler Two spring loaded Area of each valve 4.90" Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes ✓
 Smallest distance between boilers or uptakes and bunkers or woodwork 8" INT. Mean dia. of boilers 162" Length 10-6 15/16 Material of shell plates S ✓
 Thickness 1 3/32 Range of tensile strength 28/32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double long. seams TRDBS Diameter of rivet holes in long. seams 1 5/32 Pitch of rivets 8" Lap of plates or width of butt straps 17" ✓
 Per centages of strength of longitudinal joint rivets 89.3 plate 85.5 Working pressure of shell by rules 180 Size of manhole in shell 16x12 ✓
 Size of compensating ring 9x1 3/32 No. and Description of Furnaces in each boiler 3 plain ✓ Material S Outside diameter 40 9/16 ✓
 Length of plain part top 81 1/2 Thickness of plates crown 25" bottom 76" 32" Description of longitudinal joint welded ✓ No. of strengthening rings ✓
 Working pressure of furnace by the rules 188 Combustion chamber plates: Material S Thickness: Sides 11/16 Back 21/32 Top 11/16 Bottom 7/8 ✓
 Pitch of stays to ditto: Sides 9 1/2 x 9 3/8 Back 9x9 Top 9 1/2 x 9 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 ✓
 Material of stays S Area at smallest part 2.070" Area supported by each stay 90.250" Working pressure by rules 206 End plates in steam space: Material S Thickness 1/16 Pitch of stays 17 3/8 x 17 How are stays secured D.N. & W. Working pressure by rules 181 Material of stays S ✓
 Area at smallest part 6.100" Area supported by each stay 295.0" Working pressure by rules 215 Material of Front plates at bottom S ✓
 Thickness 31/32 Material of Lower back plate S Thickness 15/16 Greatest pitch of stays 14x9 Working pressure of plate by rules 219 ✓
 Diameter of tubes 3 1/2 Pitch of tubes 5x4 3/4 Material of tube plates S Thickness: Front 31/32 Back 7/8 Mean pitch of stays 10" ✓
 Pitch across wide water spaces 14 Working pressures by rules 184 Girders to Chamber tops: Material S Depth and thickness of girder at centre 8 1/2 x 1 3/4 Length as per rule 32 Distance apart 9 1/2 Number and pitch of stays in each two 9 1/2 ✓
 Working pressure by rules 197 Steam dome: description of joint to shell % of strength of joint ✓
 Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓
 Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓

SUPERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure Lloyd's Register ✓
 Date of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓
 Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓



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