

Rpt. 4.

REPORT ON MACHINERY

No. 38588
WED. 19 MAR. 1919

Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 30th Nov. 1917 Last Survey 5th March 1919
 Reg. Book. on the S.S. "TREMADOU" (ex "war Picotee") (Number of Visits 56)
 Master Built at Glasgow By whom built D. W. Henderson (Glasgow) When built 1919
 Engines made at Glasgow By whom made D. W. Henderson (Glasgow) when made 1919
 Boilers made at Glasgow By whom made D. W. Henderson (Glasgow) when made 1919
 Registered Horse Power Owners Hain S.S. Co. Ltd. Port belonging to St. Ives
 Nom. Horse Power as per Section 28 517 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 27-44-73 Length of Stroke 48 Revs. per minute 80 Dia. of Screw shaft as per rule 14-7/8 as fitted 15-2 Material of screw shaft Steel
 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 Two shafts, shell shaft
 liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 5-0 1/2
 Dia. of Tunnel shaft as per rule 13-3/8 as fitted 13-2 Dia. of Crank shaft journals as per rule 13-9/16 as fitted 14-2 Dia. of Crank pin 14-2 Size of Crank web 28-9 Dia. of thrust shaft under
 collars 14-2/4 Dia. of screw 17-2/4 Pitch of Screw 16-6 No. of Blades 4 State whether moveable No Total surface 45-2 1/4
 No. of Feed pumps 2 Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 3 Sizes of Pumps 7 and 9 1/2 x 7 x 18 1/2 and 10 1/2 x 11 x 24 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 4 @ 3 1/2 In Holds, &c. No. 1 Two @ 3 1/2 No. 2 Two @ 3 1/2
 No. of Bilge Injections 1 sizes 8 Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size 3 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 No
 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 7 d Suctions 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
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Deck Platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Steel 60 of Scotland Ltd
 Total Heating Surface of Boilers 7665 Is Forced Draft fitted Yes No. and Description of Boilers 3 Sample loaded
 Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 3-12-18 No. of Certificate 14544
 Can each boiler be worked separately Yes Area of fire grate in each boiler 63-3 1/4 No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 9-62 Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 1-9 Mean dia. of boilers 15-6 Length 11-6 Material of shell plates Steel
 Thickness 1 1/4 Range of tensile strength 29635 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams do have
 long. seams TRDBS Diameter of rivet holes in long. seams 1 5/16 Pitch of rivets 4-8 Lap of plates or width of butt straps 19 1/2
 Per centages of strength of longitudinal joint rivets 88-3 plate 85-6 Working pressure of shell by rules 182 Size of manhole in shell 16 x 22
 Size of compensating ring and flange No. and Description of Furnaces in each boiler 3 corrugated Material Steel Outside diameter 42 3/16
 Length of plain part top Thickness of plates crown 19 bottom 32 Description of longitudinal joint welded No. of strengthening rings —
 Working pressure of furnace by the rules 185 Combustion chamber plates: Material Steel Thickness: Sides 3/4 Back 1/2 Top 3/4 Bottom 3/4
 Pitch of stays to ditto: Sides 9 1/4 x 10 5/8 Back 8 1/4 x 10 5/8 Top 9 1/4 x 10 5/8 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180
 Material of stays Steel Area at smallest part 1-990 Area supported by each stay 9-80 Working pressure by rules 184 End plates in steam space:
 Material Steel Thickness 1 3/16 Pitch of stays 2 1/4 x 10 5/8 How are stays secured Nuts Working pressure by rules 182 Material of stays Steel
 Area at smallest part 8-290 Area supported by each stay 4-450 Working pressure by rules 184 Material of Front plates at bottom Steel
 Thickness 7/8 Material of Lower back plate Steel Thickness 3/4 Greatest pitch of stays 3 5/8 x 8 3/4 Working pressure of plate by rules 187
 Diameter of tubes 2 1/4 Pitch of tubes 4 x 3/8 Material of tube plates Steel Thickness: Front 3/16 Back 3/4 Mean pitch of stays 9 7/8
 Pitch across wide water spaces 13 5/8 Working pressures by rules 181 Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 10 x 7/8 (2) Length as per rule 35 9/16 Distance apart 10 5/8 Number and pitch of stays in each 3 @ 9 1/4
 Working pressure by rules 188 Steam dome: description of joint to shell None % 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 to
 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

If not, state whether, and when, one will be sent? In a Report also sent on the Hull of the Ship?



