

REPORT ON MACHINERY.

No. 25808

Date of writing Report 31 Oct 1907 When handed in at Local Office 31 Oct 1907 Port of Glasgow
 No. in Survey held at Dalmuir Date, First Survey 14th Oct 1907 Last Survey 26th Sept 1907
 Reg. Book. 429 on the S S Junia (Number of Visits.....)
 Master Built at Dalmuir By whom built H^m Beardmore & Co Ltd Tons } Gross
 Engines made at Dalmuir By whom made H^m Beardmore & Co Ltd when made 1907 } Net
 Boilers made at do By whom made do when made 1907
 Registered Horse Power 463 Owners Pacific Steam Nav Co Ltd Port belonging to Liverpool
 Nom. Horse Power as per Section 28 463 Is Refrigerating Machinery fitted for cargo purposes do Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks 3
 Dia. of Cylinders 25 1/2, 42 & 70 Length of Stroke 51 Revs. per minute 80 Dia. of Screw shaft 15 1/8 as per rule 15 1/8 Material of 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 ✓ If two
 liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 61 1/2
 Dia. of Tunnel shaft 13 1/2 as per rule 13 1/2 Dia. of Crank shaft journals 14 1/8 as per rule 14 1/8 Dia. of Crank pin 14 1/8 Size of Crank web 26 1/2 x 10 Dia. of thrust shaft under
 collars 14 1/8 Dia. of screw 17-6 Pitch of Screw 18-0 No. of Blades 4 State whether moveable yes Total surface 88 sq ft
 No. of Feed pumps 4 Diameter of ditto 10 1/2 x 8 x 18 Stroke 18 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 25 1/2 Can one be overhauled while the other is at work yes
 No. of Donkey Engines Four Sizes of Pumps 10 1/2 x 8 x 18 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Four 3 1/2" diam. " " " " 9 x 15 In holds, &c. Four 3 1/2" in Nos 1, 2, 3 & 4.
 one 3 1/2" in No 5 and one 2 1/2" in tunnel well.
 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 yes, 6"
 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 ✓
 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 bulk How are they protected Wood lining
 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 15/8/07 of Stern Tube 5/8/07 Screw shaft and Propeller 15/8/07
 Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from top platform in E. Room

BOILERS, &c.—(Letter for record.....) Manufacturers of Steel H^m Beardmore & Co Ltd
 Total Heating Surface of Boilers 8121 sq ft Is Forced Draft fitted no No. and Description of Boilers Three Single Ended
 Working Pressure 190 lb Tested by hydraulic pressure to 380 lb Date of test 22/3/07 No. of Certificate 8866
 Can each boiler be worked separately yes Area of fire grate in each boiler 739 sq ft No. and Description of Safety Valves to
 each boiler one, direct opening Area of each valve 7.07 sq in Pressure to which they are adjusted 195 lb Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 15" Inside Can dia. of boiler 16-6" Length 11-2" Material of shell plates Steel
 Thickness 35/16" Range of tensile strength 29/32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR Lap
 long. seams Double Straps Diameter of rivet holes in long. seams 1 9/16" Pitch of rivets 10" Lap of plates or width of butt straps 22 1/2"
 Per centages of strength of longitudinal joint 84.3 Working pressure of shell by rules 225 lb Size of manhole in shell 16" x 12"
 Size of compensating ring Mc Neil No. and Description of Furnaces in each boiler 4. 4 furnaces Material Steel Outside diameter 46"
 Length of plain part 19/32 Thickness of plates bottom Description of longitudinal joint Welded No. of strengthening rings ✓
 Working pressure of furnace by the rules 205 Combustion chamber plates: Material Steel Thickness: Sides 9/32 Back 9/16 Top 9/32 Bottom 15/16
 Pitch of stays to ditto: Sides 8 x 8" Back 7 1/2 x 7 1/2" Top 8 x 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 190
 Material of stays Steel Diameter at smallest part 5 1/2" Area supported by each stay 5 1/2 sq ft Working pressure by rules 198 End plates in steam space:
 Material Steel Thickness 1 1/4" Pitch of stays 16 1/2 x 16 1/2" How are stays secured 8 Nuts Working pressure by rules 268 Material of stays Steel
 Diameter at smallest part 6 1/4" Area supported by each stay 265 sq ft Working pressure by rules 242 Material of Front plates at bottom Steel
 Thickness 7/8" Material of Lower back plate Steel Thickness 1" Greatest pitch of stays 15 3/4" Working pressure of plate by rules 202
 Diameter of tubes 3 1/2" Pitch of tubes 4 1/2" Material of tube plate Steel Thickness: Front 7/8" Back 7/8" Mean pitch of stays 10"
 Pitch across wide water spaces 14 3/4" Working pressures by rules 270 lb Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 9 3/8 x 1 1/2" Length as per rule 30 1/6 Distance apart 8" Number and pitch of stays in each Three, 8"
 Working pressure by rules 203 lb 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 ✓

VERTICAL DONKEY BOILER

Manufacturers of Steel

None.

No. Description
Made at By whom made When made Where fixed
Working pressure tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of Safety
Valves No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment
If fitted with easing gear If steam from main boilers can enter the donkey boiler Dia. of donkey boiler Length
Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams
Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint
Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays
Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
Working pressure of furnace by rules Thickness of furnace crown plates Stayed by
Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied: *Two top & two bottom end bolts & nuts, two main bearings - one set of coupling bolts & nuts, one set of fuel & bidge pump valves, assorted bolts & nuts & a few bars of iron, propeller shaft, prop. flanges bottom end brasses, eccentric straps & chains, valve spindle, piston rod, rings and springs for each cylinder, shaft for centrifugal pump etc.*

The foregoing is a correct description,

Manufacturer.

WILLIAM BEARDMORE & CO., LIMITED.

Dates of Survey while building
During progress of work in shops - *Oct 4, 19, 22 Nov 5, 8 Dec 1, 13, 1907 Jan 8, 17 Feb 13, 20, 22 Mar 1, 14, 22, 26, 28 Apr 5, 8, 15, 23*
During erection on board vessel - *May 18, 23, 24, 25 Jun 7, 10, 11, 27 July 4, 25, 29 Aug 15, 21, 23 Sep 3, 5, 6, 11, 17, 23, 26*
Total No. of visits *42* Is the approved plan of main boiler forwarded herewith *No*

Dates of Examination of principal parts - Cylinders *23/4 + 15/5/07* Slides *27/3* Covers *27/3* Pistons *27/3* Rods *27/3/07*
Connecting rods *27/3* Crank shaft *7/4 etc* Thrust shaft *15/4* Tunnel shafts *15/4/07* Screw shaft *11/4/07* Propeller *15/5/07*
Steam tube *5/8/07* Steam pipes tested *10/6, 21/5, 23/5, 24/5, 25/5, 26/5, 27/5, 28/5, 29/5, 30/5, 31/5, 1/6, 2/6, 3/6, 4/6, 5/6, 6/6, 7/6, 8/6, 9/6, 10/6, 11/6, 12/6, 13/6, 14/6, 15/6, 16/6, 17/6, 18/6, 19/6, 20/6, 21/6, 22/6, 23/6, 24/6, 25/6, 26/6, 27/6, 28/6, 29/6, 30/6, 1/7, 2/7, 3/7, 4/7, 5/7, 6/7, 7/7, 8/7, 9/7, 10/7, 11/7, 12/7, 13/7, 14/7, 15/7, 16/7, 17/7, 18/7, 19/7, 20/7, 21/7, 22/7, 23/7, 24/7, 25/7, 26/7, 27/7, 28/7, 29/7, 30/7, 31/7, 1/8, 2/8, 3/8, 4/8, 5/8, 6/8, 7/8, 8/8, 9/8, 10/8, 11/8, 12/8, 13/8, 14/8, 15/8, 16/8, 17/8, 18/8, 19/8, 20/8, 21/8, 22/8, 23/8, 24/8, 25/8, 26/8, 27/8, 28/8, 29/8, 30/8, 31/8, 1/9, 2/9, 3/9, 4/9, 5/9, 6/9, 7/9, 8/9, 9/9, 10/9, 11/9, 12/9, 13/9, 14/9, 15/9, 16/9, 17/9, 18/9, 19/9, 20/9, 21/9, 22/9, 23/9, 24/9, 25/9, 26/9, 27/9, 28/9, 29/9, 30/9, 31/9, 1/10, 2/10, 3/10, 4/10, 5/10, 6/10, 7/10, 8/10, 9/10, 10/10, 11/10, 12/10, 13/10, 14/10, 15/10, 16/10, 17/10, 18/10, 19/10, 20/10, 21/10, 22/10, 23/10, 24/10, 25/10, 26/10, 27/10, 28/10, 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