

Received at London Office

MON. SEP. 15. 1913

Date of writing Report 6-9-13 19 When handed in at Local Office 9. 9-13 Port of Hull
 No. in Survey held at Hull Date, First Survey Dec 7/1909 Last Survey 3-9-13 19
 Reg. Book. on the Steel Lure, Lug Lady Nedegar (Number of Visits 72) Gross 105
 Master Selby Built at Selby By whom built Cochran & Sons Ltd Tons Net 24
 Engines made at Hull By whom made Parlis & Co Ltd When built 1913-9
 Boilers made at Hull By whom made Parlis & Co Ltd when made 1913-9
 Registered Horse Power 59 Owners J. Constant Port belonging to Newport (Wales)
 Nom. Horse Power as per Section 28 59 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks 3
 Dia. of Cylinders 13"-18"-31" Length of Stroke 21" Revs. per minute 6.99 Dia. of Screw shaft 7" Material of steel
 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 ✓ 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 30 1/2"
 Dia. of Tunnel shaft 6 1/2" Dia. of Crank shaft journals 6 3/4" Dia. of Crank pin 6 1/2" Size of Crank webs 23 1/2" x 4 1/2" Dia. of thrust shaft under
 collars 6 1/2" Dia. of screw 8'-0" Pitch of Screw 10'-0" No. of Blades 3 State whether moveable no Total surface 27 1/2"
 No. of Feed pumps one Diameter of ditto 2 1/2" Stroke 10" Can one be overhauled while the other is at work ✓
 No. of Bilge pumps one Diameter of ditto 2 1/2" Stroke 10" Can one be overhauled while the other is at work ✓
 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 Two 2" dia In Holds, &c. one 2" in each compartment

No. of Bilge Injections one sizes 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size yes 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 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 Main steam & feed How are they protected plated recess
 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 22-8-13 of Stern Tube 22-8-13 Screw shaft and Propeller 22-8-13
 Is the Screw Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record S) Manufacturers of Steel A. Beardmore & Co
 Total Heating Surface of Boilers 1060 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 1-8-13 No. of Certificate 2001
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 35.8 ft² No. and Description of Safety Valves to
 each boiler two spring loaded Area of each valve 3.97 ft² Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes
 Smallest distance between boilers on uptakes and bunkers 8" lagged Mean dia. of boilers 36 1/8" Length 10'-0" Material of shell plates S
 Thickness 15/16" Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double
 long. seams J.P.A.B.S. Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7 5/8" Lap of plates or width of butt straps 16"
 Per centages of strength of longitudinal joint 92.6 Working pressure of shell by rules 181 Size of manhole in shell 12" x 16"
 Size of compensating ring 7" x 15 1/16" No. and Description of Furnaces in each boiler two plain Material S Outside diameter 40"
 Length of plain part top 60 7/16" Thickness of plates bottom 1 1/16" Description of longitudinal joint welded No. of strengthening rings ✓
 Working pressure of furnace by the rules 187 Combustion chamber plates: Material S Thickness: Sides 3/8" Back 2 1/32" Top 3/8" Bottom 5/8"
 Pitch of stays to ditto: Sides 8 3/4" x 8 1/2" Back 9 1/4" x 8" Top 8 1/2" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181
 Material of stays S Diameter at smallest part 1 7/16" Area supported by each stay 74.375 ft² Working pressure by rules 190 End plates in steam space:
 Material S Thickness 1" Pitch of stays 15" x 16" How are stays secured A. H. Working pressure by rules 186 Material of stays S
 Diameter at smallest part 4 1/2" Area supported by each stay 240 ft² Working pressure by rules 182 Material of Front plates at bottom S
 Thickness 15/16" Material of Lower back plate S Thickness 7/8" Greatest pitch of stays 14 1/2" x 8" Working pressure of plate by rules 193
 Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates S Thickness: Front 15/16" Back 1 3/16" Mean pitch of stays 9 1/2"
 Pitch across wide water spaces 14 1/2" Working pressures by rules 182 lbs Girders to Chamber tops: Material S Depth and
 thickness of girder at centre 7 1/4" x 1 1/2" Length as per rule 28" Distance apart 8" Number and pitch of stays in each Two 8 1/2"
 Working pressure by rules 192 Superheater or Steam chest; how connected to boiler ✓ 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

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 _____ Rivets _____ Plates _____
 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 _____ Radius of do. _____ Stayed by _____
 Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— Two top end bolts & nuts, Two bottom end bolts & nuts, Two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of feed, bilge, air circulating pump valves, one main & one auxiliary check valve, and a quantity of bolts & nuts & iron of various sizes.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
 During progress of work in shops:— 1909:— Dec 7, 16, 21, 22, 30. 1910:— Jan 5, 8, 20, Feb 3, 8, 17, 23, 25, 26, Mar 2, 5, 7, 8, 9, 21, Apr 1, 4, 7, 8, 16, 22, 26, 27, May 10, 23, 28, Jun 6, 9, Nov 25, 29, Dec 5, 8, 13, 26, 30, 1911: Jan 3, 7, 10, 12, 14, 18, 24, 31, Feb 12, 8, Apr 1, Dec 21.
 During erection on board vessel:— 1913: Jun 19, 20, 25, 26, July 4, 9, 15, 17, 21, 24, 26, 30, 31, Aug 12, 18, 22, 27, 29, Sep 1, 3.
 Total No. of visits 72.

Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 19-6-13 Slides 19-6-13 Covers 19-6-13 Pistons 26-6-13 Rods 26-6-13
 Connecting rods 26-6-13 Crank shaft 19-6-13 Thrust shaft 30-7-13 Tunnel shafts 25-7-13 Screw shaft 31-7-13 Propeller 31-7-13
 Stern tube 30-7-13 Steam pipes tested 29-8-13 Engine and boiler seatings 22-8-13 Engines holding down bolts 1-9-13
 Completion of pumping arrangements 1-9-13 Boilers fixed 28-8-13 Engines tried under steam 1-9-13
 Main boiler safety valves adjusted 1-9-13 Thickness of adjusting washers Port 7/16 Starboard 7/16
 Material of Crank shaft Steel Identification Mark on Do. 601 JB Material of Thrust shaft Steel Identification Mark on Do. 1026 FLS
 Material of Tunnel shafts Steel Identification Marks on Do. 1024 FLS Material of Screw shafts Steel Identification Marks on Do. 1025 FLS
 Material of Steam Pipes Copper Test pressure 40 lbs.

General Remarks (State quality of workmanship, opinions as to class, &c.) These engines were completed with the exception of fitting the pistons & shafting in 1910. They have now been completely opened up, overhauled, cleaned & examined. The Machinery in this vessel has been constructed under special survey in accordance with the approved plans & the rules of this Society, the materials & workmanship are good. The Boiler was tested by hydraulic pressure to 300 lbs found sound & tight. The Machinery has been properly fitted & secured on board & on completion was tried under steam & found satisfactory. In our opinion The vessel is eligible for the word T.C.B. 9.13.

It is submitted that this vessel is eligible for THE RECORD. + LMC 9.13.

The amount of Entry Fee ... £ 1 : 0 :
 Special ... £ 8 : 17 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 9-9-13
 When received, 22-9-13

Committee's Minute

TUE SEP 16 1913

Assigned

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping



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MACHINERY CERTIFICATE WRITTEN