

REPORT ON MACHINERY.

No. 25741
TUES. 17 SEP 1907

Received at London Office

Date of writing Report 14 Sept 1907 When handed in at Local Office 14 Sept 1907 Port of Glasgow
 No. in Survey held at Irvine + Bowling Date, First Survey 10th January Last Survey 17th Sept 1907
 Reg. Book. S S Le Scouff (Number of Visits) 1
 on the S S Le Scouff
 Master Scott + Son Built at Bowling By whom built Scott + Son Tons Gross 1907
 Engines made at Irvine By whom made Renfrew Bros + Co when made 1907
 Boilers made at Port Glasgow By whom made Clyde LBS + Engineering Co when made 1907
Donkey Bunk at Govan Owners Harruth + Co Port belonging to Orient
 Registered Horse Power _____ Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No
 Nom. Horse Power as per Section 28 99

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks 3
 Dia. of Cylinders 15, 25 + 40 Length of Stroke 27 Revs. per minute 94 Dia. of Screw shaft 8.26 Material of Iron
 as per rule 8.26 as fitted 8.26 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 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 34 1/2"
 Dia. of Tunnel shaft 8" as per rule 8" as fitted 8" Dia. of Crank shaft journals 7.83" as per rule 7.83" as fitted 7.83" Dia. of Crank pin 8" Size of Crank web 15 1/2 x 4 3/4" Dia. of thrust shaft under
 collars 8" Dia. of screw 10-0" Pitch of Screw 13-3" No. of Blades 4 State whether moceable No Total surface 43 sq ft
 No. of Feed pumps 2 Diameter of ditto 2 1/2" Stroke 13 1/2" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 3" Stroke 13 1/2" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines Three Sizes of Pumps 6-7-8, 3-4-6, 3-2-3 Duplex No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room One 2 1/2" In Holds, &c. Two 2 1/2"

No. of Bilge Injections 1 sizes 4" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size Yes, 2 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 Yes
 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 Bilge to hold How are they protected Hood boxing
 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 24/7/07 of Stern Tube 24/7/07 Screw shaft and Propeller 24/7/07
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door Yes worked from Yes

BOILERS, &c.—(Letter for record _____) Manufacturers of Steel See Crane Report in 15148 now sent

Total Heating Surface of Boilers _____ Is Forced Draft fitted _____ No. and Description of Boilers _____
 Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
 Can each boiler be worked separately _____ Area of fire grate in each boiler 53 sq ft No. and Description of Safety Valves to
 each boiler Two, direct spring Area of each valve 5.94 sq in 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 11-0" Mean dia. of boilers _____ Length _____ Material of shell plates _____
 Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams _____
 long. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____
 Per centages of strength of longitudinal joint _____ Working pressure of shell by rules _____ Size of manhole in shell _____
 Size of compensating ring _____ No. and Description of Furnaces in each boiler _____ Material _____ Outside diameter _____
 Length of plain part _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____
 Working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
 Pitch of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____
 Material of stays _____ Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: _____
 Material _____ Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____
 Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____
 Thickness _____ Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____
 Diameter of tubes _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
 Pitch across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and
 thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____
 Working pressure by rules _____ 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 *Glydebridge Steel Co Ltd*
 No. *One* Description *Vertical Cross Tube*
 Made at *Govan* By whom made *Marriott & Graham* When made *1907* Where fixed *Stokehold*
 Working pressure *100 lb* Tested by hydraulic pressure to *200 lb* Date of test *2/7/07* No. of Certificate *529* Fire grate area *11 1/2 sq ft* Description of Safety Valves *Two direct opening* No. of Safety Valves *2* Area of each *3 1/4 sq in* Pressure to which they are adjusted *105 lb* Date of adjustment *4/9/07*
 If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler *No* Dia. of donkey boiler *4-6"* Length *10'-0"*
 Material of shell plates *Steel* Thickness *3/8"* Range of tensile strength *27/32* Descrip. of riveting long. seams *A R Lap* Rivets *85-5"*
 Dia. of rivet holes *3/16"* Whether punched or drilled *drilled* Pitch of rivets *2 3/4"* Lap of plating *1/4"* Per centage of strength of joint *70%* Plates *70%*
 Working pressure of shell by rules *103 lb* Thickness of shell crown plates *1/2"* Radius of do. *5'-0"* No. of stays to do. *4* Dia. of stays *2 1/8"*
 Diameter of furnace *46" Mean* Length of furnace *4'-9 1/2"* Thickness of furnace plates *1/2"* Description of joint *Welded*
 Working pressure of furnace by rules *100 lb* Thickness of furnace crown plates *1/2"* Stayed by *four stays 2 1/8" diam*
 Diameter of uptake *14 1/2"* Thickness of uptake plates *1/2"* Thickness of water tubes *3/8"* Dates of survey

SPARE GEAR. State the articles supplied:— *Two top and two bottom end bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of feed & bilge pump valves, assorted bolts & nuts and a few bars of iron. (Extra one propeller)*

The foregoing is a correct description,
Renfrew Brothers & Co Manufacturer.

Dates of Survey while building
 During progress of work in shops— *1907 Jan 10 17 24 31 Feb 11 26 Mar 8 Apr 10 May 25 29 June 11 20 25 July 1 8 26*
 During erection on board vessel— *Aug 2 12 21 27 30 Sep 2 4 5 6 7*
 Total No. of visits *26* Is the approved plan of main boiler forwarded herewith *Yes*

Dates of Examination of principal parts—Cylinder *20/25/07* Slides *29/6* Covers *29/5/07* Pistons *25/6/07* Rods *1/7/07*
 Connecting rods *1/7/07* Crank shaft *2/6* Thrust shaft *1/7/07* Tunnel shafts *✓* Screw shaft *1/7/07* Propeller *1/7/07*
 Stern tube *1/7/07* Steam pipes tested *30/8/07* Engine and boiler seatings *12/8/07* Engines holding down bolts *21/8/07*
 Completion of pumping arrangements *27/8/07* Boilers fixed *27/8/07* Engines tried under steam *6/7/07*
 Main boiler safety valves adjusted *4/9/07* Thickness of adjusting washers *M.B 3/8 10/32 D.B 5/32 3/16*
 Material of Crank shaft *Iron* Identification Mark on Do. *1797* Material of Thrust shaft *Steel* Identification Mark on Do. *1797*
 Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Iron* Identification Marks on Do. *do*
 Material of Steam Pipes *Copper* Test pressure *360 lb per sq in*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The machinery of this vessel has been built under special survey, the materials and workmanship are of good quality, it has been securely fitted on board and satisfactorily tried under full steam. In our opinion the machinery of this vessel is now eligible for record of LMC 9-07 (mixed) in register book.*

Plans of main & donkey boilers, forging report and CR report on Lib No 15148 now attached.

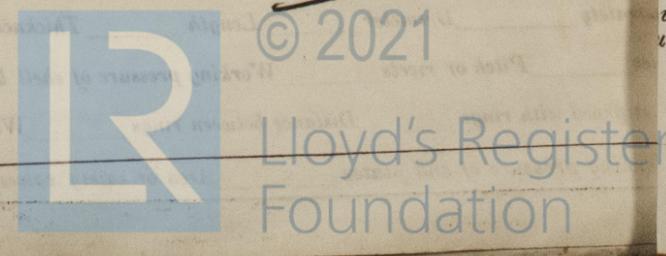
It is submitted that
 this vessel is eligible for
THE RECORD. LMC 907

JRM
 18/9/07

The amount of Entry Fee...
 Special *£ 9 18 0*
 Donkey Boiler Fee *£ 4 19 0*
 Travelling Expenses (if any) *£ 2 2 0*

When applied for...
 When received...
George Murdoch & C. H. Tilditch
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute *18 SEP 1907*
 Assigned *L.M.C. 907*



Certificate (if required) to be sent to the Registrar of Shipping (The Surveyors are requested not to write on or below the space for Committee's Minute.)