

REPORT ON MACHINERY

SAT. 11 APL 1908

Received at London Office

Date of writing Report 6/4/1908 When handed in at Local Office 9/4/1908 Port of Hull
 No. in Survey held at Hull Date, First Survey Nov. 20/07 Last Survey Mar 25 1908
 Reg. Book. 33 Supp on the 1/2 hawl "NOTRE DAME DE LOURDES." (Number of Visits 36)
 Master Built at Selby By whom built Lochman & Sons When built 1908
 Engines made at Hull By whom made Amos & Smith when made
 Boilers made at By whom made when made
 Registered Horse Power Owners The Christmans, A. Bourgeois & Co Port belonging to Boulogne
 Nom. Horse Power as per Section 28 99 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines Twin triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 14-23-38 Length of Stroke 27 Revs. per minute 114 Dia. of Screw shaft 8.22 Material of screw shaft Iron
 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
 Is the liner 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 40
 Dia. of Tunnel shaft 7.1 Dia. of Crank shaft journals 7.45 Dia. of Crank pin 7.2 Size of Crank webs 5x5 Dia. of thrust shaft under
 collars 7.2 Dia. of screw 10.5 Pitch of Screw 11.3 No. of Blades 4 State whether moveable No. Total surface 36 sq.
 No. of Feed pumps 2 Diameter of ditto 2 3/8 Stroke 18 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 2 3/8 Stroke 18 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps 5x2 1/2 x 5 - 5x5 x 5 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 1-2 & 1-2 from apex bilge pump only In Holds, &c. 3-2 (Fore hold, Steer well,
& Reserve tank) 2" Green suction to all holds with discharge on ship side with
 No. of Bilge Injections 1 sizes 3 1/2 Connected to condenser, or to circulating pump Condenser Is a separate Donkey Suction fitted in Engine room & size 2" Green
 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 Hold suction 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
 Dates of examination of completion of fitting of Sea Connections 21.1.08. of Stern Tube 21.1.08. Screw shaft and Propeller 21.1.08.
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Wm Beardmore & David Colville & Sons
 Total Heating Surface of Boilers 1765 Is Forced Draft fitted No. No. and Description of Boilers 1 S.P. Multitubular
 Working Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs. Date of test 4.3.08. No. of Certificate 1636
 Can each boiler be worked separately Area of fire grate in each boiler 53.62 sq. No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 4.41 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 6 Mean dia. of boilers 14-0 Length 11-0 Material of shell plates Steel
 Thickness 1/8 Range of tensile strength 28-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams S.P. Lap.
 long. seams S.P. Staggered Diameter of rivet holes in long. seams 1 5/32 Pitch of rivets 7.87 Lap of plates or width of butt straps 17 1/2
 Per centages of strength of longitudinal joint rivets 88 Working pressure of shell by rules 180 Size of manhole in shell 16 x 12
 plate 85.3 Size of compensating ring 40 x 30 x 1/8 No. and Description of Furnaces in each boiler 3 plain Material Steel Outside diameter 3-4 3/8
 Length of plain part top 6-11 3/4 bottom 6-7 1/4 Thickness of plates crown 3/4 bottom 5/8 Description of longitudinal joint welded No. of strengthening rings
 Working pressure of furnace by the rules 180 Combustion chamber plates: Material Steel Thickness: Sides 4/6 Back 4/6 Top 5/8 Bottom 4/6
 Pitch of stays to ditto: Sides 10 x 7 1/2 Back 9 3/8 x 8 Top 9 x 7 1/4 If stays are fitted with nuts or riveted heads None Working pressure by rules 245
 Material of stays Steel Diameter at smallest part 1 1/2 Area supported by each stay 75 sq. Working pressure by rules 248 End plates in steam space:
 Material Steel Thickness 1/6 Pitch of stays 18 x 16 How are stays secured Sh-washer Working pressure by rules 184 Material of stays Steel
 Diameter at smallest part 6 Area supported by each stay 288 sq. Working pressure by rules 220 Material of Front plates at bottom Steel
 Thickness 3/8 Material of Lower back plate Steel Thickness 3/8 Greatest pitch of stays 5 1/2 x 9 3/8 Working pressure of plate by rules 180
 Diameter of tubes 3 1/2 Pitch of tubes 4 3/4 x 4 1/2 Material of tube plates Steel Thickness: Front 3/8 Back 3/8 Mean pitch of stays 9 1/2
 Pitch across wide water spaces 14 Working pressures by rules 182 Girders to Chamber tops: Material Iron Depth and
 thickness of girder at centre 9 1/2 x 2 Length as per rule 2-10 Distance apart 9 Number and pitch of stays in each 30 7 1/2
 Working pressure by rules 198 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

W1534-0098

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 _____ Rivets _____
 Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____ 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 _____ 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 connecting rods bolts & nuts, two main bearing bolts, one set of coupling bolts & nuts, one set of feed & surge pump valves, one set of air & circulating pump valves, assorted bolts & nuts etc.*

The foregoing is a correct description,

Manufacturer.

FOR AMOS & SMITH

W. H. H. H.

MANAGING PARTNER

J. H. J. P.

Dates of Survey while building
 During progress of work in shops— 1907:— Nov 20. 23. 27. Dec 3. 12. 14. 21 1908:— Jan 2. 3. 6. 7. 8. 10. 14. 18. 21. 23 27. 29. Feb 3
 During erection on board vessel— Feb 4. 8. 12. 17. 20. 21. 24. 25 Mar 3. 4. 12. 14. 17. 19. 21. 25
 Total No. of visits 36.

Is the approved plan of main boiler forwarded herewith *R.H. 19911*

Dates of Examination of principal parts—Cylinders 27.1.08. Slides 3.3.08 Covers 17.2.08. Pistons 20.2.08. Rods 18.1.08.
 Connecting rods 12.2.08. Crank shaft 5.2.08 Thrust shaft 12.2.08 Tunnel shafts ✓ Screw shaft 8.1.08. Propeller 14.1.08.
 Stern tube 14.1.08. Steam pipes tested 16.3.08. Engine and boiler seatings 21.1.08 Engines holding down bolts 12.3.08.
 Completion of pumping arrangements 25.3.08. Boilers fixed 19.3.08. Engines tried under steam 25.3.08
 Main boiler safety valves adjusted 21.3.08. Thickness of adjusting washers *A 3/4 F 3/4*
 Material of Crank shaft *Steel*. Identification Mark on Do. *402 J.W.G. 12.2.08* Material of Thrust shaft *Steel*. Identification Mark on Do. *402 J.W.G. 12.2.08*
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. *402 J.W.G. 5.1.08*
 Material of Steam Pipes *Solea drawn Copper*. ✓ Test pressure *36 bolts*.

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery & boiler of this vessel have been constructed under Special Survey, are of good material & workmanship & have been fitted & secured on board in accordance with the rules. They are now in good working condition & eligible in my opinion to have the notation L.M.C. 3.08 in the Register Book.*

of "Labrador" Hull Rept 19911

It is submitted that this vessel is eligible for THE RECORD L.M.C. 3.08. Elec. light.

J.W.D. 11/4/08.

The amount of Entry Fee	£ 1 : 50	When applied for, 10/4/1908
Special	£ 15 : 7	
Donkey Boiler Fee	£ - : -	When received, 30.4.08
Travelling Expenses (if any)	£ 16 : 19 : 4	

John. W. Gwynne
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

TUES. 14 APR 1908

Home 3.08

Assessed

MACHINERY CERTIFICATE WRITTEN



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Rpt. 13.
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Certificate (if required) to be sent to
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