

REPORT ON MACHINERY

No. 32315
WED. FEB. 5. 1913
TUE. MAR. 18. 1913

Hull Rpt. 25972

Received at London Office

Date of writing Report 19 When handed in at Local Office 3. 2. 1913 Port of Glasgow
 No. in Survey held at Coatbridge Date, First Survey 26. 8. 12 Last Survey 28. 1. 1913
 Reg. Book. (Number of Visits 15) Mar 7th (Hull)
 Sup. on the Hull S.C.K. "DOGGAR BANK"
 Master Built at Selby By whom built Cochran & Son (551) When built 1913
 Engines made at Coatbridge By whom made W.B. & Ledgerwood (395) when made 1913
 Boilers made at Glasgow By whom made D. Rowan & Co. (185) when made 1913
 Registered Horse Power Owners G. H. Thomson & Sons Fishing Co. Ltd. Port belonging to Hull.
 Nom. Horse Power as per Section 28 85 87 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted No.

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 13" 22" 37" Length of Stroke 27 Revs. per minute Dia. of Screw shaft 8.06 as per rule 7.8 as fitted 8.5 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 in the propeller boss If the liner is in more than one length are the joints burned length 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 Length of stern bush 3' 6"
 Dia. of Tunnel shaft as per rule 7.084 as fitted none Dia. of Crank shaft journals as per rule 7.25 7.438 as fitted 7.25 Dia. of Crank pin 7.75 Size of Crank webs 7 1/2 x 5 Dia. of thrust shaft under collars 7.75 Dia. of screw 10.0 Pitch of Screw No. of Blades 4 State whether moveable Total surface
 No. of Feed pumps 2 Diameter of ditto 3 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 one Sizes of Pumps 3 1/2 x 6 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 2 1/2" one forward & one aft. In Holds, &c. One 2 1/2" in main hold.
 No. of Bilge Injections 1 sizes 3 1/2 Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size 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
 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 25. 11. 12 of Stern Tube 25. 11. 12 Screw shaft and Propeller 25. 11. 12
 Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel
 Total Heating Surface of Boilers 14307 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 No. and Description of Safety Valves to each boiler
 Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
 Smallest distance between boilers or uptakes and bunkers or woodwork 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 rivets Working pressure of shell by rules Size of manhole in shell
 plate
 Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
 bottom
 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

117 - 912900 - 898900

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 sets top & bottom end connecting rod bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set each feed & bilge pump valves, iron of various sizes, a quantity of assorted bolts, nuts etc.

The foregoing is a correct description,
For W. & A. Lidgerwood Manufacturers. R. Sneddon.

Dates of Survey while building: During progress of work in shops -- 1912 Aug. 26. Oct. 3. 8. 22. 28. Nov. 13. 15. 21. 25. 27. Dec. 2. 11. 1913 Jan. 8. 16. 23. (Hull 1912 Nov. 25. 1913 - Feb. 5. 6. 11. 12. 14. 17. 20. 25. 27. Mar. 7. 15. + 11 = 26.)

Is the approved plan of main boiler forwarded herewith _____

Dates of Examination of principal parts—Cylinders 8/1/12 Slides 2/12/12 Covers 2/12/12 Pistons 2/12/12 Rods 2/12/12

Connecting rods 2/2/12 Crank shaft 11/12/12 Thrust shaft 11/12/12 Tunnel shafts ✓ Screw shaft 15/11/12 Propeller 25.11.12

Stern tube 15/11/12 Steam pipes tested 20.2.13 Engine and boiler seatings 25.11.12 Engines holding down bolts 11.2.13

Completion of pumping arrangements 14.3.13 Boilers fixed 27.2.13 Engines tried under steam 27.2.13

Main boiler safety valves adjusted 27.2.13 Thickness of adjusting washers Port 3" Starbd. 13"

Material of Crank shaft *steel* Identification Mark on Do. *40/54 11/12/12* Material of Thrust shaft *steel* Identification Mark on Do. *40/54 11/12/12*

Material of Tunnel shafts *steel* Identification Marks on Do. *40/54 11/12/12* Material of Screw shafts *iron* Identification Marks on Do. *3137 15/11/12*

Material of Steam Pipes *Solid drawn copper* Test pressure *400 lbs. per sq. inch hydraulic.*

General Remarks (State quality of workmanship, opinions as to class, &c.)

These engines have been built under special survey, the materials & workmanship are of good description, they have now been forwarded to Hull where they will be fitted on board the vessel.

These engines have now been secured on board in accordance with the Rules, tried under steam & found satisfactory. The boilers also having been secured on board & found satisfactory the machinery is respectfully submitted as being eligible in my opinion to be classed with the notation of T.L.M.C. 3.13 in the Register Books.

It is submitted that this vessel is eligible for THE RECORD. + LMC 3.13.

J.M. J.W.D. 20/3/13.

A.M. Kland Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

The amount of Entry Fee .. £ 1 : 0 :
Special .. £ 12 : 15 :
Donkey Boiler Fee .. £ : :
Travelling Expenses (if any) £ : :
When applied for. 8.2.13.
When received. 4/4/13.

Committee's Minute GLASGOW 4 FEB. 1913

TUE. APR. 1-1913

Assigned Defered for compln.

+ LMC 3.13



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