

REPORT ON MACHINERY

No. 19326

WED. JUL. 10. 1918

Received at London Office

Date of writing Report 25th June 1918 When handed in at Local Office 1 July 1918 Port of GreenockNo. in Survey held at 2nd Glasgow & Greenock Date, First Survey 8th June, 1915: Last Survey 5th July 1918.
Reg. Book. on the 2nd Glasgow & Greenock (Number of Visits 10)

Master Built at 2nd Glasgow By whom built W Hamilton & Co Tons Gross 5334 Net 3415 When built 1910.

Engines made at Greenock By whom made John S Kincaid & Co Ltd when made 1910.

Boilers made at Greenock By whom made Rankin & Macdonald Ltd when made 1910.

Registered Horse Power Owners 2nd Glasgow & Greenock Port belonging to Greenock.

Nom. Horse Power as per Section 28 476 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted 2nd

ENGINES, &c.—Description of Engines Triple Compound No. of Cylinders Three No. of Cranks Three

Dia. of Cylinders 27-44-73 Length of Stroke 48 Revs. per minute 65 Dia. of Screw shaft as per rule 14.95 Material of 5th screw shaft as fitted 16.

Is the screw shaft fitted with a continuous liner the whole length of the stern tube 2nd Is the after end of the liner made water tight

in the propeller boss 2nd 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 64.

Dia. of Tunnel shaft as per rule 13.85 Dia. of Crank shaft journals as per rule 14.0 Dia. of Crank pin 14 Size of Crank webs 21.9 Dia. of thrust shaft under

collars 14 Dia. of screw 18.5 Pitch of Screw 18.6 No. of Blades 4 State whether moveable 2nd Total surface 106.78

No. of Feed pumps 2nd Diameter of ditto 7 Stroke 24 Can one be overhauled while the other is at work 2nd

No. of Bilge pumps 2nd Diameter of ditto 4 Stroke 27 Can one be overhauled while the other is at work 2nd

No. of Donkey Engines 2nd Sizes of Pumps 15-10-5-5-5 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Three 3/4 In Holds, &c. Light 3/4 1st 1st 1st

(Amended—see sketch Nov 89056 (August 1932) Report).

No. of Bilge Injections 2nd sizes 8 Connected to condenser, or to circulating pump 2nd Is a separate Donkey Suction fitted in Engine room & size 2nd

Are all the bilge suction pipes fitted with roses 2nd Are the roses in Engine room always accessible 2nd Are the sluices on Engine room bulkheads always accessible 2nd

Are all connections with the sea direct on the skin of the ship 2nd Are they Valves or Cocks both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates 2nd Are the Discharge Pipes above or below the deep water line 2nd

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel 2nd Are the Blow Off Cocks fitted with a spigot and brass covering plate 2nd

What pipes are carried through the bunkers — How are they protected —

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times 2nd

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges 2nd

Is the Screw Shaft Tunnel watertight 2nd Is it fitted with a watertight door 2nd worked from 1st stokehold

BOILERS, &c.—(Letter for record S) Manufacturers of Steel 2nd Report attached hereto.

Total Heating Surface of Boilers 6697.5 Is Forced Draft fitted 2nd No. and Description of Boilers 2nd single ended

Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 20.2.5/10 No. of Certificate 1342-1343

Can each boiler be worked separately 2nd Area of fire grate in each boiler 79.5 4th No. and Description of Safety Valves to

each boiler 2nd Area of each valve 12.56 Pressure to which they are adjusted 185 lb Are they fitted with easing gear 2nd

Smallest distance between boilers or uptakes and bunkers or woodwork 10 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

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

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 Area 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

Area 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 Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

SPARE GEAR.

State the articles supplied:—

Two top end bolts. Two bottom end bolts. Two main bearing bolts. One lat coupling bolts. One lat feed pump valves. One lat ridge pump valves. Sashells. Bolt nuts. Three cylinder bolts. Bolts and springs. Lat safety valve spring. &c.

The foregoing is a correct description,

FOR JOHN G. KINCAID & COY., LIMITED.

Robert Green.

Secretary.

Manufacturer.

Dates of Survey while building (1915) June 8. 15. 25. 29. Aug. 11. 26. Sept. 6. 9. Dec. 2 (1916) Feb. 8. 11. Mar. 7. 13. Apr. 3. 5. 7. 13. 14. 19. 20. 28. May. 1. 4. 17. 23. June. 12. July. 17. 20. Aug. 10. Oct. 17. Nov. 10. 14. 17. 27. Dec. 6. 8 (1917) Jan. 10. 19. 22. Apr. 4. May 2. 4. 11. 14. 28. June. 6. Oct. 24. Nov. 12. 26. 30. (1918) Jan. 7. Feb. 20. 22. Mar. 1. 6. 8. 12. 14. 15. 19. 21. 25. 26. 29. Apr. 2. 3. 5. 9. 10. 15. 17. 19. 23. 24. 26. 29. May. 1. 3. 7. 17. 20. 23. 24. 28. 29. June. 3. 5. 7. 10. 11. 12. 14. 18. 19. 25. July 1. 3. 4.

Dates of Survey while building (Total No. of visits) 101

Is the approved plan of main boiler forwarded herewith

Yes

Is the approved plan of donkey boiler forwarded herewith

Yes

Dates of Examination of principal parts—Cylinders 17/4/18 Slides 23/5/18 Covers 17/4/18 Pistons 23/5/18 Rods 17/5/18 Connecting rods 17/5/18 Crank shaft 29/5/18 Thrust shaft 24/4/18 Tunnel shafts 29/5/18 Screw shaft 17/5/18 Propeller 7/6/18 Stern tube 29/5/18 Steam pipes tested 10/6/18 Engine and boiler seatings 29/5/18 Engines holding down bolts 7/6/18 Completion of pumping arrangements 7/6/18 Boilers fixed 7/6/18 Engines tried under steam 5/7/18 Completion of fitting sea connections 17/4/18 Stern tube 29/5/18 Screw shaft and propeller 12/6/18 Main boiler safety valves adjusted 24/6/18 Thickness of adjusting washers 3 9/16 - 3 9/16 - 3 9/16 - 3 9/16 Material of Crank shaft 1 steel Identification Mark on Do. 2304 D Material of Thrust shaft 1 steel Identification Mark on Do. 2570 Material of Tunnel shafts 1 steel Identification Marks on Do. 2348 1 steel Identification Marks on Do. 6854 Material of Steam Pipes 1 steel Test pressure 600 lb Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Have the requirements of Section 49 of the Rules been complied with Is this machinery duplicate of a previous case If so, state name of vessel No "Ardgort"

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

This vessel is fitted to carry fuel oil at 150°F in the double bottom and deep tank. The requirements have been complied with.

The machinery and boiler of this vessel have been examined under special survey and placed on board in accordance with the Society's Rules. They are now in my opinion in safe working condition, and the class is respectfully submitted for the registration, + L.M.C. 7.18. F.D. + the vessel to carry fuel oil at 150°F in the double bottom and deep tank. in the Register Book.

See Survey Report attached hereto regarding Sashells Shaft.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 7.18. F.D.

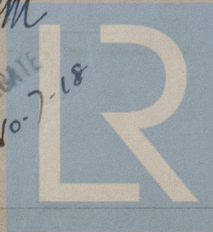
The amount of Entry Fee ... £ 3 : 0 : 0 When applied for, 19th June 1918. Special ... £ 43 : 16 : 3 6th July 1918. Donkey Boiler Fee ... £ : : : When received, 22nd June 1918. Travelling Expenses (if any) £ : : :

Committee's Minute GLASGOW 9 JUL 1918

Assigned + L.M.C. 7.18

F.D.

Engineer Surveyor to Lloyd's Register of Shipping.



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