

REPORT ON MACHINERY.

No. 4655

Received at London Office

SEP 17 1920

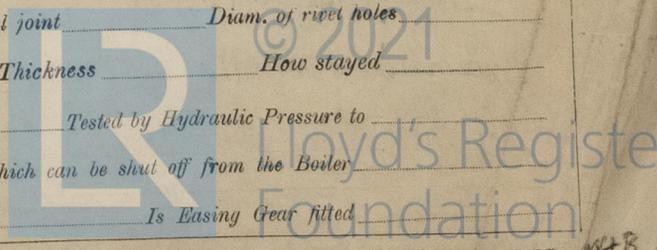
Date of writing Report 19 When handed in at Local Office 16.9.1920 Port of Manchester
 No. in Survey held at Manchester Date, First Survey 26. May 1919 Last Survey 8. Sept. 1920
 Reg. Book. on the Main Engines for Coasting Vessel 2.72 St. Rossie (Number of Visits 9) Tons { Gross }
 Master Built at Belfast By whom built Manchester Dry Dock Co. When built 1920
 Engines made at Manchester By whom made Manchester Dry Dock Co. when made 1920
 Boilers made at _____ By whom made _____ when made _____
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Nom. Horse Power as per Section 28 52 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

ENGINES, &c.—Description of Engines Compound Surface Condensing No. of Cylinders 2 No. of Cranks 2
 Dia. of Cylinders 15" and 32" Length of Stroke 21" Revs. per minute 120 Dia. of Screw shaft as per rule 6.89" Material of screw shaft FORGED INGGOT 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 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 2'4"
 Dia. of Tunnel shaft as per rule none Dia. of Crank shaft journals as per rule 6.44" Dia. of Crank pin 6.5" Size of Crank webs 11 1/4" x 5" Dia. of thrust shaft under
 collars 6.5" Dia. of screw 7'6" Pitch of Screw 7'9" No. of Blades 4 State whether moveable no Total surface 21
 No. of Feed pumps 1 Diameter of ditto 2 1/2" Stroke 10" Can one be overhauled while the other is at work yes
 No. of Bilge pumps 1 Diameter of ditto 2 1/2" Stroke 10" Can one be overhauled while the other is at work yes
 No. of Donkey Engines _____ Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps _____
 In Engine Room _____ In Holds, &c. _____

No. of Bilge Injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate Donkey Suction fitted in Engine room & size
 Are all the bilge suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____ Are the sluices on Engine room bulkheads always accessible
 Are all connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the Discharge Pipes above or below the deep water line
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel _____ Are the Blow Off Cocks fitted with a spigot and brass covering plate
 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
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
 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 952 Is Forced Draft fitted no No. and Description of Boilers _____
 Working Pressure 130 lbs. 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 _____ 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 _____ End plates in steam space:
 Material of stays _____ Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of stays
 Material _____ Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of Front plates at bottom
 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 _____



004564-004572-0048

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied: Two connecting rod top end bolts and nuts, two connecting rod bottom end bolts and nuts, two main bearing bolts and nuts, one set coupling bolts, one set feed and bilge pump valves, Assorted bolts and nuts, iron or steel of various sizes.

The foregoing is a correct description, FOR THE MANCHESTER DRY DOCKS COMPANY LTD.

Handwritten signature: Alex. Lamb.

Manufacturer.

Dates of Survey while building: 26/5/19, 24/6/19, 6/2/20, 8/6/20, 21/6/20, 14/7/20, 6/8/20, 7/9/20, 8/9/20. 9 visits. Manager.

Dates of Examination of principal parts: Cylinders Feb. 1920, Slides Feb 1920, Covers Feb. 1920, Pistons June 1920, Rods June 1920, Connecting rods June 1920, Crank shaft June 1920, Thrust shaft June 1920, Tunnel shafts, Screw shaft June 1920, Propeller, Stern tube, Steam pipes tested, Engine and boiler seatings, Engines holding down bolts, Completion of pumping arrangements, Boilers fixed, Engines tried under steam, Completion of fitting sea connections, Stern tube, Screw shaft and propeller, Main boiler safety valves adjusted, Thickness of adjusting washers, Material of Crank shaft O.H. steel, Identification Mark on Do. N° 360, Material of Thrust shaft O.H. steel, Identification Mark on Do. 354, Material of Tunnel shafts, Identification Marks on Do., Material of Screw shaft O.H. steel, Identification Marks on Do. 361, Material of Steam Pipes, Test pressure, Is an installation fitted for burning oil fuel, 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 3/8 "DEVERON" N° 71.

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

This machinery has been built under Special Survey and the materials tested in accordance with the rules of this Society. The workmanship and materials used, so far as can be seen, are good and eligible in my opinion to be classed with record of the L.M.C. This machinery has been dispatched to Ellesmere Port to be installed on board the vessel.

Certificate (if required) to be sent to

The amount of Entry Fee ... £ 4 : 10 : 0, Special ... £ : : , Donkey Boiler Fee ... £ : : , Travelling Expenses (if any) £ : : . When applied for, 16-9-1920. When received, 11/10/20.

Handwritten signature: A. Campbell, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned. See Minute on Liv 26. 83483



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