

REPORT ON MACHINERY.

No. 5325.

Received at London Office

TUE. MAR. 25 1924

Date of writing Report 19 _____ When handed in at Local Office 19 _____ Port of **MANCHESTER.**
 No. in Survey held at Manchester. Date, First Survey 6. 6. 20 Last Survey _____ 19 _____
 Reg. Book. _____ (Number of Visits _____)

Master _____ Built at Ellerman Port. By whom built The Manchester Dry Dock & Co. Ltd. When built _____
 Engines made at Manchester. By whom made The Manchester Dry Dock & Co. Ltd. when made 1924
 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 - 32 Length of Stroke 21 Revs. per minute 120 Dia. of Screw shaft as per rule 6.57 Material of screw shaft 5 1/2 S.
 as fitted 7

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 Fitted full length If two
 liners are fitted, is the shaft lapped or protected between the liners _____ Length of stern bush _____

Dia. of Tunnel shaft as per rule 6.14 Dia. of Crank shaft journals as per rule 6.44 Dia. of Crank pin 6 1/2 Size of Crank webs 1 1/4 x 5 Dia. of thrust shaft under
 as fitted same as fitted 6 1/2 collars 6 1/2 Dia. of screw _____ Pitch of Screw _____ No. of Blades _____ State whether moveable _____ Total surface _____

No. of Feed pumps One Diameter of ditto 2 1/2 Stroke 10 Can one be overhauled while the other is at work _____
 No. of Bilge pumps One Diameter of ditto 2 1/2 Stroke 10 Can one be overhauled while the other is at work _____
 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 lb Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____

Can each boiler be worked separately _____ Area of fire grate in each boiler 35 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 _____

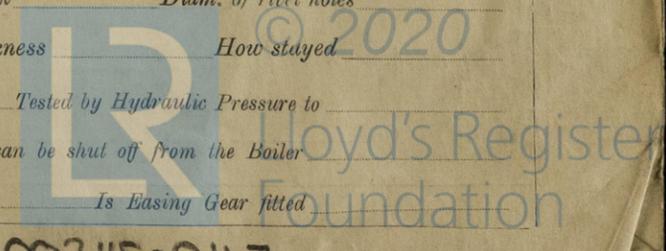
Smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers _____ Length _____ Material of shell plates _____
 Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams _____
 long. seams _____ Diameter 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 _____
 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 _____ 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 _____

UPERHEATER. 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 _____

E73.5.



003106-003115-0147

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

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

Alfred Lait

Manufacturer.

Dates of Survey while building	During progress of work in shops -	1920	June 27, 17, 18, 24, 26	1921	Jan 11, 30, Dec 9, 24, Feb 2, Mar 3, 9	1924	Mar 12, 15, 17, 19
		During erection on board vessel - - -					
			Total No. of visits				

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders 30.11.20 Slides 1.2.21 Covers 30.11.20 Pistons 9.12.20 Rods 9.12.20

Connecting rods 9.12.20 Crank shaft 2.11.20 Thrust shaft 17.9.20 Tunnel shafts ✓ Screw shaft 19.3.24 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 S. 4. 5 Identification Mark on Do. 12.11.20 A.C. Material of Thrust shaft S. 4. 5 Identification Mark on Do. 444.A.L. Lloyd's

Material of Tunnel shafts Iron Identification Marks on Do. ✓ Material of Screw shafts S. 4. 5. Identification Marks on Do. 418. B.L. Lloyd's

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 Yes If so, state name of vessel Ind. Rpt No 4655

General Remarks (State quality of workmanship, opinions as to class, &c. The above machinery has been constructed

under Special Survey and the materials tested in accordance with the Society's Rules.

The workmanship and materials employed, so far as can be seen, are sound and good and on being satisfactorily fitted on board, the vessel will be eligible, in our opinion, for service + L by C. with date.

The machinery has been dispatched to Elmhurst Port to be fitted on board.

The amount of Entry Fee ... £ : : When applied for,

2/5 Special ... £ 5 : 4 : 24. 3. 1924

Donkey Boiler Fee ... £ : : When received,

Travelling Expenses (if any) £ : : 2/4/24

W. Lane

A. Campbell
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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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.