

Rpt. 4.

REPORT ON MACHINERY.

No. 36528
11 NOV 1925

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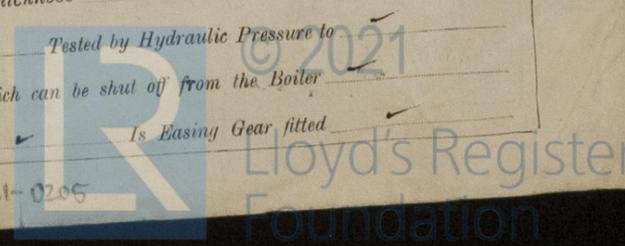
Date of writing Report 10/11 1925 Port of Hull
 When handed in at Local Office
 Date, First Survey 20/4/25 Last Survey 2/11/1925
 (Number of Visits 29)
 No. in Survey held at Hull
 Reg. Book. "NOBLEMAN"
 on the S.S.
 Master Selby Built at Selby By whom built Cochrane & Sons Ltd (980) When built 1925
 Engines made at Hull By whom made Earles S.B. & E. Co. Ltd. (A260) when made 1925
 Boilers made at Hull By whom made Earles S.B. & E. Co. Ltd. when made 1925
 Registered Horse Power _____ Owners United Traving Co. Ltd. Port belonging to Hull.
 Nom. Horse Power as per Section 28 112 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Triple expansion
 Dia. of Cylinders 14 1/2 x 24 x 40 Length of Stroke 27 Revs. per minute _____
 Dia. of Screw shaft as per rule 8.42 Material of screw shaft Steel
 as fitted 9"
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube 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 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 3-6"
 Dia. of Tunnel shaft as per rule 7.22 Dia. of Crank shaft journals as per rule 7.58 Dia. of Crank pin 7 7/8 Size of Crank webs 5 3/8 x 14 1/2 Dia. of thrust shaft under
 collars 7 7/8 as fitted 7 1/2 as fitted 7 3/8 No. of Blades 4 State whether moveable Total surface 40 sq
 Dia. of screw 10-0" Pitch of Screw 12-0"
 No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 18" Can one be overhauled while the other is at work
 No. of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 18" Can one be overhauled while the other is at work
 No. of Donkey Engines one Sizes of Pumps 6 x 4 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room one 2 1/2 dia. Boiler room one 2 1/2 dia. In Holds, &c. Forward bilge one 2" dia, Tunnel
well one 2" dia.
 No. of Bilge Injections 1 sizes 4" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 2 1/2 gals
 Are all the bilge suction pipes fitted with roses yes 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 both
 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 above
 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 forward 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
 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 S) Manufacturers of Steel Steel Co. of Scotland. Fredingham & S. Co.
 Total Heating Surface of Boilers 2020 Is Forced Draft fitted No. and Description of Boilers One S.E. main.
 Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 1-7-25 No. of Certificate 3557
 Can each boiler be worked separately Area of fly grate in each boiler 60.5 sq No. and Description of Safety Valves to
 each boiler 2 spring loaded Area of each valve 6.490" Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 14-6" Length 11-3" Material of shell plates S
 Thickness 1 3/32 Range of tensile strength 29/33 Are the shell plates welded or flanged Descrip. of riveting: cir. seams D.R.
 long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 3/16 Lap of plates or width of butt straps 17 5/8
 Per centages of strength of longitudinal joint plate 87 Working pressure of shell by rules 181 Size of manhole in shell 16 x 12
 Size of compensating ring 32 x 30 x 1 7/32 No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 43 1/8
 Length of plain part top 87 1/2 Thickness of plates bottom 13 Description of longitudinal joint welded No. of strengthening rings _____
 Working pressure of furnace by the rules 188.5 Combustion chamber plates: Material S Thickness: Sides 11/16 Back 21/32 Top 23/32 Bottom 11/16
 Pitch of stays to ditto: Sides 8 1/2 x 9 1/4 Back 9 3/8 x 8 1/4 Top 8 x 11 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 185
 Material of stays S Area at smallest part 1 7/8 dia. Area supported by each stay 78.60 Working pressure by rules 193.5 End plates in steam space: _____
 Material S Thickness 1 1/4 Pitch of stays 20 3/4 x 19 1/4 How are stays secured D.N Working pressure by rules 182 Material of stays S
 Area at smallest part 3 1/4 dia. Area supported by each stay 400.0 Working pressure by rules 201 Material of Front plates at bottom S
 Thickness 29/32 Material of Lower back plate S Thickness 32 Greatest pitch of stays 14 1/2 x 8 1/4 Working pressure of plate by rules 208
 Diameter of tubes 3 1/2 Pitch of tubes 5 1/4 Material of tube plates S Thickness: Front 32 Back 32 Mean pitch of stays 10 1/2
 Pitch across wide water spaces 14 1/2 x 9 1/2 Working pressures by rules 188 Girders to Chamber tops: Material S Depth and
 thickness of girder at centre 10 1/4 x 1 5/8 Length as per rule 2-9 3/4 Distance apart 11 1/2 Number and pitch of stays in each 3 @ 8"
 Working pressure by rules 189. 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 _____
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Is Easing Gear fitted _____
 Date of Test _____ Pressure to which each is adjusted _____

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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two top end bolts & nuts, 2 bottom end bolts & nuts, 2 main bearing bolts & nuts, 1 set of coupling bolts & nuts, 1 set of feed pump valves, 20 condenser ferrules, 3 condenser tubes, 24 condenser packings, 6 junk ring studs, 1 set air pump valves, 1 set circulating pump valves, 1 set donkey pump valves, 1 main feed check valve, 1 donkey check valve, 3 boiler tubes, 6 stay nuts, 1 safety valve spring, spare propeller, 4 stationary fire bars, 4 rocking fire bars.

The foregoing is a correct description,

SHIPBUILDING & ENGINEERING CO. L^{td} MITEL

ere *Antyedes* Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1925: Apr 20, May 5, 12, 18, 29 Jun 2, 16, 22, 23, 25, 26, 29, Jul 1, 8, 14, 27
During erection on board vessel --- Aug 5, 6, 11, 12, 13, 14, 19, Sep 10, 17, Oct 23, 28, 29, Nov 2, 29
Total No. of visits 29

Is the approved plan of main boiler forwarded herewith

Is the approved plan of donkey boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 16-6-25 Slides 23-6-25. Covers 16-6-25. Pistons 23-6-25 Rods 26-6-25.

Connecting rods 26-6-25. Crank shaft 16-6-25 Thrust shaft 16-6-25 Tunnel shafts 16-6-25 Screw shaft 16-6-25. Propeller 16-6-25

Stern tube 16-6-25 Steam pipes tested 14-8-25. Engine and boiler seatings 22-8-25. Engines holding down bolts 12-8-25

Completion of pumping arrangements 29-10-25 Boilers fixed 12-8-25. Engines tried under steam 29-10-25.

Completion of fitting sea connections 22-6-25 Stern tube 22-6-25. Screw shaft and propeller 14-7-25.

Main boiler safety valves adjusted 28-10-25. Thickness of adjusting washers P. $\frac{9}{32}$ " S. $\frac{3}{8}$ "

Material of Crank shaft *Steel*. Identification Mark on Do. *163 P.F.* Material of Thrust shaft *Steel*. Identification Mark on Do. *163 P.F.*

Material of Tunnel shafts *Steel*. Identification Marks on Do. *163 P.F.* Material of Screw shafts *Steel*. Identification Marks on Do. *163 P.F.*

Material of Steam Pipes *S.D. Steel, 4 1/2 dia 1/4 thick*. Test pressure *.540 lbs per sq. in.*

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

General Remarks (State quality of workmanship, opinions as to class, &c. The engines & boiler of this vessel have been built under special survey, & in accordance with the approved plans & the Rules of this Society. The materials & workmanship are good. The machinery has been satisfactorily fitted on board, tried under working conditions, & found good. The steam & feed pipes have been tested by hydraulic pressure to Rule requirements. The safety valves have been adjusted under steam & tried for accumulation. The machinery is eligible in my opinion to have the record + LMC 11.25 in the Register Book.

It is recommended that this vessel be classified for THE RECORD + LMC 11.25.

R. Fitzgerald
11/11/25

The amount of Entry Fee ... £ 3 : - :
Special ... £ 28 : - :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for. 10/11/25
When received. 20/12/25

R. Fitzgerald
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 13 NOV 1925
Assigned + L.M.C. 11.25



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ORIGINAL WRITTEN

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