

REPORT ON MACHINERY.

No. 13882

30 APR 1925

Received at London Office

Date of writing Report *29th April 1925* When handed in at Local Office *29th April 1925* Port of *Aberdeen*
 No. in Survey held at *Aberdeen* Date, First Survey *24.4.23* Last Survey *16.4.1925*
 Reg. Book. on the *S.S. "CARRICKMORE"* (Number of Visits *40*)
 Master Built at *Aberdeen* By whom built *J. Lewis & Sons, Ltd. (N^o 77)* Tons { Gross *581*
 Engines made at *Aberdeen* By whom made *J. Lewis & Sons, Ltd. (N^o 170)* Net *269*
 Boiler made at *Aberdeen* By whom made *J. Lewis & Sons, Ltd. (N^o 96)* When built *1925*
 Registered Horse Power Owners *J. Kelly Ltd.* Port belonging to *Belfast*
 Nom. Horse Power as per Section 28 *87* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

ENGINES, &c.—Description of Engines *Triple Expansion* No. of Cylinders *3* No. of Cranks *3*
 Dia. of Cylinders *13"-23"-37"* Length of Stroke *26"* Revs. per minute *92* Dia. of Screw shaft *8.02"* 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 *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'-10 1/2"*
 Dia. of Tunnel shaft *7.04"* Dia. of Crank shaft journals *7.39"* Dia. of Crank pin *7 1/2"* Size of Crank webs *11 1/4"* Dia. of thrust shaft under
 collars *7 1/2"* Dia. of screw *10'-0"* Pitch of Screw *13'-0"* No. of Blades *4* State whether moveable *No* Total surface *37 sq ft*
 No. of Feed pumps *2* Diameter of ditto *2 3/4"* Stroke *13 1/2"* Can one be overhauled while the other is at work *Yes*
 No. of Bilge pumps *2* Diameter of ditto *2 3/4"* Stroke *13 1/2"* Can one be overhauled while the other is at work *Yes*
 No. of Donkey Engines *2* Sizes of Pumps *8" x 8" x 8"* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *3 @ 2 1/2"* In Holds, &c. *2 @ 2"*

No. of Bilge Injections *One* sizes *4"* Connected to condenser, or to circulating pump *pump* Is a separate Donkey Suction fitted in Engine room & size *1 @ 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 *None*
 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 *Suction pipes to hold* How are they protected *below ceiling*
 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*
 Is the Screw Shaft Tunnel watertight *None* Is it fitted with a watertight door *worked from*

BOILERS, &c.—(Letter for record *S*) Manufacturers of Steel *J. Colville & Sons Ltd., The Lanarkshire Steel Co. Ltd.*
 Total Heating Surface of Boilers *1440 sq ft* Is Forced Draft fitted *No* No. and Description of Boilers *One Single-Ended*
 Working Pressure *200 lbs./sq. in.* Tested by hydraulic pressure to *350 lbs./sq. in.* Date of test *20.3.25* No. of Certificate *1042*
 Can each boiler be worked separately *Yes* Area of fire grate in each boiler *48 sq ft* No. and Description of Safety Valves to
 each boiler *two spring loaded* Area of each valve *4.91 sq ft* Pressure to which they are adjusted *200 lbs./sq. in.* Are they fitted with easing gear *Yes*
 Smallest distance between ~~boiler~~ uptakes and bunkers *16"* Int. dia. of boiler *13'-9"* Length *10'-8"* Material of shell plates *Steel*
 Thickness *1 1/8"* Range of tensile strength *28/32 tons/sq. in.* Are the shell plates welded or flanged *No* Descrip. of riveting: cir. seams *D.R. LAP.*
 long. seams *T.R.D.B.S.* Diameter of rivet holes in long. seams *1 1/2"* Pitch of rivets *8 5/8"* Top of plates or width of butt straps *18 5/8"*
 Per centages of strength of longitudinal joint *89* Working pressure of shell by rules *200 lbs./sq. in.* Size of manhole in shell *19 x 15"*
 Size of compensating ring *38 x 29 x 1 1/8"* No. and Description of Furnaces in each boiler *3 plain* Material *Steel* Outside diameter *40"*
 Length of plain part *6'-6 1/2"* Thickness of plates *1 1/8"* Description of longitudinal joint *weld* No. of strengthening rings *None*
 Working pressure of furnace by the rules *2 1/4 lbs./sq. in.* Combustion chamber plates: Material *Steel* Thickness: Sides *3/4"* Back *2 3/4"* Top *3/4"* Bottom *3/4"*
 Pitch of stays to ditto: Sides *8" x 10"* Back *8 3/4" x 8"* Top *8" x 11"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *2 1/4 lbs./sq. in.*
 Material of stays *Steel* D.I.A. OVER THREADS *1 3/4"* Area supported by each stay *88 sq in.* Working pressure by rules *206 lbs./sq. in.* End plates in steam space:
 Material *Steel* Thickness *1 3/32"* Pitch of stays *19 x 18 in.* How are stays secured *J. Nuts & W.* Working pressure by rules *202 lbs./sq. in.* Material of stays *Steel*
 Area at smallest part *3 1/4"* Area supported by each stay *342 sq in.* Working pressure by rules *236 lbs./sq. in.* Material of Front plates at bottom *Steel*
 Thickness *1 1/8"* Material of Lower back plate *Steel* Thickness *1 1/8"* Greatest pitch of stays *13 3/4" x 9 3/4" x 9 3/4"* Working pressure of plate by rules *254 lbs./sq. in.*
 Diameter of tubes *3 1/2"* Pitch of tubes *4 7/8" x 4 7/8"* Material of tube plates *Steel* Thickness: Front *1 1/8"* Back *7/8"* Mean pitch of stays *10.3*
 Pitch across wide water spaces *14"* Working pressures by rules *F206 lbs. B261* Girders to Chamber tops: Material *Steel* Depth and
 thickness of girder at centre *11" x 20 7/8"* Length as per rule *34.625* Distance apart *11"* Number and pitch of stays in each *3 @ 8"*
 Working pressure by rules *247 lbs./sq. in.* Steam dome: description of joint to shell *None* % 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 *None* 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? *No.*

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:— *All as per Rule requirements and, in addition, air and circulating pump valves, Cylinder escape valve springs, Feed Escape valve springs, one safety valve spring, 6 gunk ring studs and nuts, 6 Cylinder cover studs and nuts, 6 Condenser tubes and ferrules.*

The foregoing is a correct description,

For JOHN LEWIS & SONS, LTD.,

John J. Donald

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1923:— APRIL: 24 MAY: 12 AUG: 22 29 SEP: 12 21 OCT: 12 NOV: 6 19 26 DEC: 4 1924:— JAN: 22 FEB: 22 APRIL: 9 NOV: 24 DEC: 26 1925:— JAN: 6 9 21 28 30 FEB: 3 11 13 18 25 MAR: 4 11 16 20 25 26
During erection on board vessel -- 1925:— MARCH: 27 31 APRIL: 1 3 7 9 14 16
Total No. of visits 40

Is the approved plan of main boiler forwarded herewith *yes.*

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 18.2.25 Slides 4.3.25 Covers 18.2.25 Pistons 18.2.25 Rods 18.2.25

Connecting rods 18.2.25 Crank shaft *Under 11.8.23* Thrust shaft 18.2.25 Tunnel shafts *None* Screw shaft 18.2.25 Propeller 4.3.25

Stern tube 4.3.25 Steam pipes tested 7.4.25 Engine and boiler seatings 25.3.25 Engines holding down bolts 1.4.25

Completion of pumping arrangements 14.4.25 Boilers fixed 1.4.25 Engines tried under steam 14.4.25 + 16.4.25

Completion of fitting sea connections 25.3.25 Stern tube 16.3.25 Screw shaft and propeller 25.3.25

Main boiler safety valves adjusted 14.4.25 Thickness of adjusting washers $\frac{P}{3/8}$ $\frac{S}{3/8}$

Material of Crank shaft *Steel* Identification Mark on Do. *LLOYD'S N° 269 J.S.C. 11.8.23* Material of Thrust shaft *Steel* Identification Mark on Do. *LLOYD'S N° 1074 H.C.F. 18.2.25*

Material of Tunnel shafts *None* Identification Marks on Do. — Material of Screw shafts *Iron* Identification Marks on Do. *LLOYD'S N° 1075 H.C.F. 18.2.25*

Material of Steam Pipes *Solid drawn Copper* Test pressure 400 lbs./sq. in.

Is an installation fitted for burning oil fuel *No* 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 *No* If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel has been constructed under Special Survey in accordance with the Rules and approved plans; the materials and workmanship are good. The machinery has been efficiently installed on board the vessel, Examined under full working conditions and found satisfactory, and is eligible, in my opinion, for classification, and to have the record L.M.C. 4.25 in the Register Book.*

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 4.25. CL.

W.D. C.M.S.
30/4/25

The amount of Entry Fee ... £ 2 : 0 : 0 When applied for.
Special ... £ 21 : 15 : 0 29.4.1925
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : : 25

M. Forster

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 5 MAY 1925

Assigned

CERTIFICATE WRITTEN



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Foundation