

REPORT ON MACHINERY.

No. 35717
29 DEC 1924

Received at London Office

Date of writing Report Dec 17th 1924 When handed in at Local Office 1924 Port of HULL.
 No. in Survey held at Hull & Goole. Date, First Survey Jan. 18/24 Last Survey Dec 13th 1924
 Reg. Book. on the Shel S.S. SOUTHWELL (Number of Visits 36) Tons } Gross 486
 Net 195
 Master Goole. Built at Goole. By whom built Goole S.B. & R. Co Ld When built 1924
 Engines made at Hull By whom made C. Holmes & Co Ld (1264) when made 1924
 Boilers made at Hull. By whom made C. Holmes & Co Ld when made 1924
 Registered Horse Power 82. Owners Trickin & Son, Shipping Co, Ltd, Port belonging to Bardiff.
 Nom. Horse Power as per Section 28 82. Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

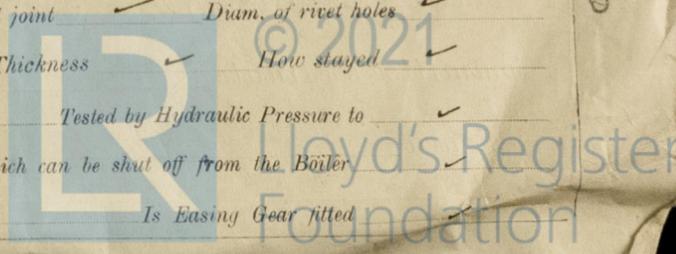
ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 13. 21. 35 Length of Stroke 24 Revs. per minute 105 Dia. of Screw shaft 7.41 as per rule 7.14 Material of screw shaft Steel
 as fitted 4.5
 Is the screw shaft fitted with a continuous liner the 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 36"
 Dia. of Tunnel shaft 6.49 as per rule 6.8 Dia. of Crank shaft journals 6.8 as per rule 6.8 Dia. of Crank pin 6.78 Size of Crank webs 13.5 x 4.75 Dia. of thrust shaft under
 collars 6.78 as fitted 6.78 Dia. of screw 9.3 Pitch of Screw 10.5 - 6 No. of Blades 4 State whether moveable no Total surface 31 sq. ft.
 No. of Feed pumps Two Diameter of ditto 2.75 Stroke 14.5 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps Two Diameter of ditto 2.75 Stroke 14.5 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines Two Sizes of Pumps 6x4x6 Fuel No. and size of Suctions connected to both Bilge and Donkey pumps
6x6x6 Ballast
 In Engine Room 1 @ 2.5 Strokehold 2 @ 2.5 In Holds, &c. F.P.T. 1 @ 3.5 Hold 2 @ 2.5
A.P.T. 1 @ 3.5
 No. of Bilge Injections one sizes 3" Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room & size Yes 2.5
 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 Yes
 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 Forward Suctions How are they protected Wood casings
 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 Yes Is it fitted with a watertight door Yes worked from Yes

BOILERS, &c.—(Letter for record) Manufacturers of Steel Port J. & B. Steel Co. Ltd. Bladville Row Ld.
 Total Heating Surface of Boilers 1510 sq ft Is Forced Draft fitted no No. and Description of Boilers 1 Single ended
 Working Pressure 180 lbs Tested by hydraulic pressure to 320 lbs Date of test 20.8.24 No. of Certificate 3530
 Can each boiler be worked separately Yes Area of fire grate in each boiler 45.9 sq ft. No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 4.9 sq Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 1.5 INT Mean dia. of boilers 13'-0" Length 10'-3" Material of shell plates Steel
 Thickness 1/32 Range of tensile strength 28/32 Lms Are the shell plates welded or flanged Yes Descrip. of riveting: cir. seams BR.
 long. seams TR. 5/8 S. Diameter of rivet holes in long. seams 1/32 Pitch of rivets 4 7/16 Lap of plates or width of butt straps 16
 Per centages of strength of longitudinal joint rivets 88.9 Working pressure of shell by rules 190 Size of manhole in shell 16 x 12
 plate 85.29
 Size of compensating ring 1/32 x 7.2 No. and Description of Furnaces in each boiler 3 Plain Material Steel Outside diameter 38.75
 Length of plain part 80.25 Thickness of plates 3/4 Description of longitudinal joint Welded No. of strengthening rings Yes
 Working pressure of furnace by the rules 192 Combustion chamber plates: Material Steel Thickness: Sides 1/6 Back 2 1/32 Top 1/6 Bottom 1/6
 Pitch of stays to ditto: Sides 0 x 9 Back 7 1/4 x 8 1/4 Top 10 x 8 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 183
 Material of stays Steel Area at smallest part 1.76 Area supported by each stay 90 Working pressure by rules 193 End plates in steam space:
 Material Steel Thickness 1 Pitch of stays 17 x 17 How are stays secured ST. & W. Working pressure by rules 181 Material of stays Steel
 Area at smallest part 5.270 Area supported by each stay 289 Working pressure by rules 190 Material of Front plates at bottom 1/16
 Thickness Steel Material of Lower back plate Steel Thickness 25/32 Greatest pitch of stays 13 1/2 x 8 1/4 Working pressure of plate by rules 194
 Diameter of tubes 3 1/2 Pitch of tubes 4 3/4 Material of tube plates Steel Thickness: Front 1/16 Back 1/16 Mean pitch of stays 10.7
 Pitch across wide water spaces 13 1/2 Working pressures by rules 204 + 150 Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 7 1/2 x 13 1/4 Length as per rule 2'-8" Distance apart 8 3/4 Number and pitch of stays in each 2 @ 10"
 Working pressure by rules 189 Steam dome: description of joint to shell Yes % of strength of joint Yes
 Diameter Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet holes Yes
 Pitch of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes

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

If not, state whether, and when, one will be sent? Is a Report also sent on the Hull of the Ship?

2200 51200 101000



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. Set of coupling bolts & nuts. Spare valves for air, circulating, feed & bilge pumps. Main and donkey check valves.

The foregoing is a correct description,

For CHARLES B. HOLMES & CO. LTD

J. Codrill

Manufacturer.

Dates of Survey while building: During progress of work in shops - 1924: Jan 18, Feb 13, Apr 4, 15, 16, 30, May 2, 13, 23, Jun 6, 10, 13, 20, 30. During erection on board vessel - Jul 9, 18, 28, Aug 11, 18, 20, 24, Sep 2, 23, Oct 7, 13, 24, 30, 27, 30, Nov 5, 10, 17, 18, 20, 25, Dec 9, 13. Total No. of visits 36

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 10.6.24 Slides 24.10.24 Covers 10.6.24 Pistons 24.10.24 Rods 18.7.24 Connecting rods 18.7.24 Crank shaft 23.9.24 Thrust shaft 23.9.24 Tunnel shafts - Screw shaft 7.10.24 Propeller 7.10.24 Stern tube 7.10.24 Steam pipes tested 10.11.24 Engine and boiler seatings 30.10.24 Engines holding down bolts 5.11.24 Completion of pumping arrangements 25.11.24 Boilers fixed 30.10.24 Engines tried under steam 20.11.24 Completion of fitting sea connections 13.10.24 Stern tube 13.10.24 Screw shaft and propeller 13.10.24 Main boiler safety valves adjusted 20.11.24 Thickness of adjusting washers A 7/16 F 3/8

Material of Crank shaft Steel Identification Mark on Do. 127 J.H.M. Material of Thrust shaft Steel Identification Mark on Do. 127 J.H.M.

Material of Tunnel shafts - Identification Marks on Do. - Material of Screw shafts Steel. Identification Marks on Do. 127 J.H.M.

Material of Steam Pipes S.D. Copper, 3 1/2 Run & 6 lbs. Test pressure 360 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 & boilers of this vessel have been built under special survey & in accordance with the approved plans of the Society's Rules. They have been satisfactorily fitted on board, tried under working conditions & found good. Safety valves adjusted & pumping arrangements in order. The machinery is eligible in my opinion to have record in the Register Book of L.M.C. 12.24. C.L.

It is submitted that this vessel is eligible for THE RECORD. + LMC 12.24. CL.

J.W.D.
31/12/24
J.P.R.

The amount of Entry Fee ... £ 2 : 0 : When applied for. Special ... £ 20 : 10 : 19... Donkey Boiler Fee ... £ : : When received. Travelling Expenses (if any) £ : : 25

John H. Mackintosh

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 6 JAN 1925

Assigned + L.M.C. 12.24 C.L.

CERTIFICATE WRITTEN.



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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.