

REPORT ON MACHINERY.

No. 27496

FRI. MAY. 22. 1914

Received at London Office

Date of writing Report 15th May 1914 When handed in at Local Office 20.5.14 Port of Hull
 No. in Survey held at Hull Date, First Survey Dec 2nd Last Survey May 13th 1914
 Reg. Book. 97 on the Steel Deck "CORCYRA." (Number of Visits) 20 Tons Gross 225
 Master Cook Built at Hull By whom built Cook & Sons Ltd Tons Net 112
 Engines made at Hull By whom made Carr & Smith Ltd when made 1914
 Boilers made at Hull By whom made Carr & Smith Ltd when made 1914
 Registered Horse Power 68 Owners S. Western Stevedoring Co. Ltd Port belonging to Grimsby
 Nom. Horse Power as per Section 28 68 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 12" 21" 34" Length of Stroke 24" Revs. per minute 7.23 Dia. of Screw shaft 7 1/2" Material of screw shaft S.
 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 ✓ 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 34"
 Dia. of Tunnel shaft 6 1/2" Dia. of Crank shaft journals 6.8" Dia. of Crank pin 7" Size of Crank webs 13 3/4" x 13 3/4" of thrust shaft under
 collars 7" Dia. of screw 8 9/16" Pitch of Screw 11.0" No. of Blades 4 State whether moveable no Total surface 29 5/8"
 No. of Feed pumps 1 Diameter of ditto 2 1/8" Stroke 12" Can one be overhauled while the other is at work ✓
 No. of Bilge pumps 1 Diameter of ditto 2 1/8" Stroke 12" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines One Sizes of Pumps 6 3/4" x 4 3/4" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2-2" One forward, one aft. In Holds, &c. 2-2" Forepeak & Slushwell.
2" suction from all bilges.
 No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump no Is a separate Donkey Suction fitted in Engine room & size 2" suction
 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 Hold 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 yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 Dates of examination of completion of fitting of Sea Connections 5.2.14 of Stern Tube 5.2.14 Screw shaft and Propeller 5.2.14
 Is the Screw Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

OILERS, &c.—(Letter for record S.) Manufacturers of Steel Messrs. Phoenix & Co. Ltd. London & Birmingham
 Total Heating Surface of Boilers 1049 Is Forced Draft fitted no No. and Description of Boilers One single ended
 Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 23.4.14 No. of Certificate 2078
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 32.84 No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 3.9 Pressure to which they are adjusted 205 lbs. Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 7" Mean dia. of boilers 12.0 Length 10.0 Material of shell plates S.
 Thickness 1 1/16" Range of tensile strength 29-33 Are the shell plates welded or flanged ✓ Descrip. of riveting: cir. seams BRD.
 long. seams BRD. Diameter of rivet holes in long. seams 1 3/32" Pitch of rivets 7 3/8" Lap of plates or width of butt straps 15 7/8"
 Per centages of strength of longitudinal joint 85.17 Working pressure of shell by rules 203 Size of manhole in shell 16 x 12
 Size of compensating ring 40 x 30 x 1 1/16" No. and Description of Furnaces in each boiler 3 plain Material S. Outside diameter 3'-0"
 Length of plain part 76" Thickness of plates 3/4" Description of longitudinal joint welded No. of strengthening rings ✓
 Working pressure of furnace by the rules 206.8 Combustion chamber plates: Material S. Thickness: Sides 3/4" Back 23/32" Top 11/16" Bottom 3/4"
 Pitch of stays to ditto: Sides 9 1/2" x 8" Back 9 1/2" x 8" Top 9 1/2" x 8" If stays are fitted with nuts or riveted heads no Working pressure by rules 211
 Material of stays S. Diameter at smallest part 2.06 Area supported by each stay 80.75 Working pressure by rules 230 End plates in steam space:
 Material S. Thickness 1 3/32" Pitch of stays 16 x 15 1/4" How are stays secured NS rns Working pressure by rules 204 Material of stays S.
 Diameter at smallest part 6.1 Area supported by each stay 244 Working pressure by rules 260 Material of Front plates at bottom S.
 Thickness 1" Material of Lower back plate S. Thickness 1 1/16" Greatest pitch of stays 13 3/4" x 8" Working pressure of plate by rules 239
 Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates S. Thickness: Front 1" Back 7/8" Mean pitch of stays 9 1/2" x 11 7/8"
 Pitch across wide water spaces 13 3/4" Working pressures by rules 203 Girders to Chamber tops: Material S. Depth and
 thickness of girder at centre 8 1/4" x 2" Length as per rule 2-8 3/4" Distance apart 8" Number and pitch of stays in each 204 9 1/2"
 Working pressure by rules 238 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked
 separately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet
 holes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓
 stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓
 Working pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

IS A DONKEY BOILER FITTED?

No.

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two each connecting piston rod bolts and nuts, Two bottom-end bolts and nuts, Two main bearing bolts and nuts, One set of coupling bolts and nuts, A quantity of assorted bolts and nuts, Iron of various sizes.

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

W. H. H. H.

Manufacturer.

Managing Director.

Dates of Survey while building { During progress of work in shops - - - 1913: Dec 2, 9, 17, 23 1914: Jan 15, Feb 5, 23, Mar 9, 17, 23, 30 Apr 1, 15, 20
During erection on board vessel - - - Apr 23, 29, May 5, 9, 12, 13
Total No. of visits 20

Is the approved plan of main boiler forwarded herewith

yes

Rehman w/5/14

Dates of Examination of principal parts—Cylinders 15.4.14. Slides 15.4.14. Covers 1.4.14. Pistons 1.4.14. Rods 20.4.14. Connecting rods 20.4.14. Crank shaft 20.4.14. Thrust shaft 20.4.14. Tunnel shafts ✓ Screw shaft 25.1.14. Propeller 25.1.14. Stern tube 25.1.14. Steam pipes tested 5.5.14. Engine and boiler seatings 5.2.14. Engines holding down bolts 9.5.14. Completion of pumping arrangements 12.5.14. Boilers fixed 9.5.14. Engines tried under steam 9.5.14. Main boiler safety valves adjusted 9.5.14. Thickness of adjusting washers PV $\frac{5}{16}$ " SV $\frac{3}{8}$ ". Material of Crank shaft S. Identification Mark on Do. 1204. Material of Thrust shaft S. Identification Mark on Do. 1204. Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts S. Identification Marks on Do. 1204. Material of Steam Pipes Copper solid drawn. Test pressure 100 lbs hyd. press. 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

"By George"

General Remarks (State quality of workmanship, opinions as to class, &c.) The engines and boiler of this vessel have been constructed under special survey in accordance with the Rules. The materials and workmanship are sound and good. The boiler tested by hydraulic pressure, with the engines secured on board and tested under steam they are now in good order & safe working condition, and respectfully submitted as being eligible in my opinion to be classed with the notation of + LMC 5.14. in the Register book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 5.14.

J. S. MacKillop

J. S. MacKillop

27/5/14

The amount of Entry Fee ... £ 1 : : When applied for, 21/5 1914
Special ... £ 10 : 4 :
Donkey Boiler Fee ... £ 5 : :
Travelling Expenses (if any) £ 1 : :
When received, 29.5.14

J. S. MacKillop

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

TUE. MAY. 26. 1914

Assigned

+ LMC 5.14

MACHINERY CERTIFICATE WRITTEN.



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