

Received at London Office SAT. 28 APR. 1917

Date of writing Report 10 When handed in at Local Office 24/4/17 Port of Hull
 No. in Survey held at Hull Date, First Survey 12.8.16 Last Survey 20/4 1917
 Reg. Book. 21 Supp. on the Steam Trawler "War Grey" (Number of Voids 30)
 Master Built at Beverley By whom built Cook, Milson & Lammell Tons { Gross 246
 Engines made at Hull By whom made Amos & Smith L^{ds} (No. 2881) when made 1917
 Boilers made at Hull By whom made Amos & Smith L^{ds} when made 1917
 Registered Horse Power Owners A. L. Black Port belonging to Grimsby
 Nom. Horse Power as per Section 28 75 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 110 Dia. of Screw shaft as per rule 7.25" 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 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 as per rule 6.48" Dia. of Crank shaft journals as per rule 6.8" Dia. of Crank pin 7" Size of Crank webs 3 1/4" 4 3/8" Dia. of thrust shaft under
 collars 7" Dia. of screw 10.0" Pitch of Screw 8.6" No. of Blades 4 State whether moveable No Total surface 31.5 sq ft
 No. of Feed pumps 1 Diameter of ditto 2 1/2" Stroke 12" Can one be overhauled while the other is at work
 No. of Bilge pumps 1 Diameter of ditto 2 1/2" Stroke 12" Can one be overhauled while the other is at work
 No. of Donkey Engines 1 Sizes of Pumps 6 1/2" 4 1/2" 6" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 2" one forward and one aft. In Holds, &c. two 2" fore hold and slushwell
 2" ejector from all bilges
 No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 1/2" ejector
 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 forward 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
 Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 8.) Manufacturers of Steel John Spencer & Sons L^{ds}
 Total Heating Surface of Boilers 1268 sq ft 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 9.3.17 No. of Certificate 3197
 Can each boiler be worked separately Area of fire grate in each boiler 31.5 sq ft No. and Description of Safety Valves to
 each boiler 2 spring loaded Area of each valve 3.97 sq in Pressure to which they are adjusted 204 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 8" Int. Mean dia. of boilers 2.9 1/16" Length 10' 0" Material of shell plates S.
 Thickness 1 5/16" Range of tensile strength 28/32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D. R.
 long. seams T. S. D. B. S. Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 7 3/4" Lap of plates or width of butt straps 16 3/4"
 Per centages of strength of longitudinal joint rivets 91.4 plate 84.67 Working pressure of shell by rules 200 Size of manhole in shell 16" 12"
 Size of compensating ring 40" 30" 1 1/8" No. and Description of Furnaces in each boiler 3 plain Material S. Outside diameter 3' 1 5/8"
 Length of plain part top 8' 3/4" bottom 8' 1/4" Thickness of plates crown 3/16" bottom 1/16" Description of longitudinal joint Welded No. of strengthening rings
 Working pressure of furnace by the rules 214 Combustion chamber plates: Material S. Thickness: Sides 3/4" Back 23/32" Top 11/16" Bottom 3/4"
 Pitch of stays to ditto: Sides 8 3/4" 9 1/2" Back 8" 9 1/4" Top 8 1/2" 9 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 202
 Material of stays S. Area at smallest part 2.066 Area supported by each stay 79.5 Working pressure by rules 234 End plates in steam space:
 Material S. Thickness 1 1/16" Pitch of stays 16 1/2" 15 3/4" How are stays secured screwed Working pressure by rules 206 Material of stays S.
 Area at smallest part 6.1 Area supported by each stay 260 Working pressure by rules 244 Material of Front plates at bottom S.
 Thickness 1 1/16" Material of Lower back plate S. Thickness 1 5/16" Greatest pitch of stays 14 1/2" 8" Working pressure of plate by rules 222
 Diameter of tubes 3 1/2" Pitch of tubes 4 7/8" 5" Material of tube plates S. Thickness: Front 1 1/16" Back 7/8" Mean pitch of stays 10.8"
 Pitch across wide water spaces 14 1/2" Working pressures by rules 206 Girders to Chamber tops: Material S. Depth and
 thickness of girder at centre 8" 2" Length as per rule 2' 8 3/4" Distance apart 8 1/2" Number and pitch of stays in each two 9 1/2"
 Working pressure by rules 211 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
 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 Valves 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:—

Two each top and bottom end connecting rod bolts and nuts, two main bearing bolts and nuts, one set of coupling bolts and nuts, one set each feed and bilge pump valves, iron of various sizes, a quantity of assorted bolts and nuts etc.

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

W. R. S. Peckham

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } 1916: Aug 12, 19, 26, Nov 22, 30, Dec 5, 16, 22, 1917: Jan 13, Feb 3, 5, 10, 12, 14, 16, 17, 24, 27
{ During erection on board vessel -- } Mar 5, 9, 16, 21, 22, 24, 27, 31, Apr 5, 11, 18, 20.
Total No. of visits 37

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

" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders 3.2.17 Slides 12.2.17 Covers 3.2.17 Pistons 12.2.17 Rods 17.2.17
Connecting rods 5.3.17 Crank shaft 24.2.17 Thrust shaft 3.2.17 Tunnel shafts ✓ Screw shaft 5.12.16 Propeller 5.12.16
Stern tube 5.12.16 Steam pipes tested 24.3.17 Engine and boiler seatings 22.12.16 Engines holding down bolts 22.3.17
Completion of pumping arrangements 20.4.17 Boilers fixed 16.3.17 Engines tried under steam 31.3.17
Completion of fitting sea connections 22.12.16 Stern tube 22.12.16 Screw shaft and propeller 22.12.16
Main boiler safety valves adjusted 31.3.17 Thickness of adjusting washers P $\frac{11}{32}$ S $\frac{13}{32}$
Material of Crank shaft *Iron* Identification Mark on Do. 1708 G.A. Material of Thrust shaft *Iron* Identification Mark on Do. 1707 G.A.
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. 1691 G.A.
Material of Steam Pipes *S.D. Copper* ✓ Test pressure 400 lbs. ✓

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 *Yes*.

Is this machinery duplicate of a previous case *Yes*. If so, state name of vessel *"Carillon"*

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 approved plans and the rules of this Society; the material and workmanship are good; the boiler and steam pipes have been tested as above by hydraulic pressure and found sound and good. The machinery has been properly fitted and secured on board and on completion tried under steam and found satisfactory. The safety valves have been adjusted under steam and tested for accumulation which did not exceed 210 lbs. per sq. inch.

In my opinion the vessel is eligible for the record ✱ L.M.C. 4.17.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 4.17.

J.W.D.

30/4/17
Geo. Allan

Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 1 : - :
Special ... £ 11 : 5 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : 2 :
When applied for, 27.4.1917
When received, 30.4.1917

Q

1.5.17

Committee's Minute

TUE - MAY 1917

Assigned

+ LMC 4.17

MACHINERY OF VESSEL
WRITTEN.



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Foundation