

Received at London Office
 Date of writing Report 10-9-17 19 When handed in at Local Office 19-9-17 19 Port of Hull FRI. 21 SEP. 1917
 No. in Survey held at Hull Date, First Survey 21-9-16 Last Survey 7-9-17 19
 Reg. Book. 286 on the steel screw trawler "Reminds"
 Master Built at Beverley By whom built Cook Wilton & Gummell Tons Gross 258 Net 113
 Engines made at Hull By whom made C. D. Holmes & Co. Ltd (1170) when made 1917-9
 Boilers made at Hull By whom made C. D. Holmes & Co. Ltd when made 1917-9
 Registered Horse Power Owners G. F. Light Port belonging to Grimsby
 Nom. Horse Power as per Section 28 80 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders Three No. of Cranks 3
 Dia. of Cylinders 12½"-22"-35" Length of Stroke 24" Revs. per minute 120 Dia. of Screw shaft as per rule 7.31" Material of screw shaft as fitted 7½" 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 If two liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 35½"
 Dia. of Tunnel shaft as per rule 6.6" Dia. of Crank shaft journals as per rule 6.93" Dia. of Crank pin 7" Size of Crank webs 4½" x 3½" Dia. of thrust shaft under collars 7" Dia. of screw 8-9" Pitch of Screw 10-9" No. of Blades 4 State whether moveable no Total surface 29 sq. ft.
 No. of Feed pumps one Diameter of ditto 2¾" Stroke 14½" Can one be overhauled while the other is at work
 No. of Bilge pumps one Diameter of ditto 2¾" Stroke 14½" Can one be overhauled while the other is at work
 No. of Donkey Engines Two 2½" sizes of Pumps 6.4½" x 6.5½" 5½" x 5" duplex No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room Two 2" dia. In Holds, &c. one 2" dia. in each compartment
 all suction also connected to water
 No. of Bilge Injections one sizes 3½" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2½" dia.
 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 suction How are they protected strong 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 Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel J. Spencer Stone
 Total Heating Surface of Boilers 1402 sq. ft. Is Forced Draft fitted no No. and Description of Boilers one single ended
 Working Pressure 195 lbs Tested by hydraulic pressure to 390 lbs Date of test 5-3-17 No. of Certificate 3196
 Can each boiler be worked separately Area of fire grate in each boiler 43.2 sq. ft. No. and Description of Safety Valves to each boiler Two spring loaded Area of each valve 4.9 sq. in. Pressure to which they are adjusted 200 lbs Are they fitted with easing gear yes
 Smallest distance between boilers on uptakes and bunkers on woodwork 8" Mean dia. of boilers 16.2" Length 10'-6" Material of shell plates steel
 Thickness 1¾" Range of tensile strength 28-32.5 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double long. seams J.P.B. Diameter of rivet holes in long. seams 1½" Pitch of rivets 8½" Top of plates or width of butt straps 16½"
 Per centages of strength of longitudinal joint rivets 86.8 plate 85.5 Working pressure of shell by rules 197 Size of manhole in shell 16" x 12"
 Size of compensating ring 7" x 1½" No. and Description of Furnaces in each boiler Three plain Material steel Outside diameter 40"
 Length of plain part top 69¾" bottom 63" Thickness of plates crown 22½" Description of longitudinal joint welded No. of strengthening rings
 Working pressure of furnace by the rules 205 Combustion chamber plates: Material steel Thickness: Sides 11/16" Back 3/8" Top 11/16" Bottom 11/16"
 Pitch of stays to ditto: Sides 9¾" x 8" Back 9¾" x 8" Top 11 x 8" Bottom 11 x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 202
 Material of stays steel Area at smallest part 2.07 sq. ft. Area supported by each stay 86.5 sq. in. Working pressure by rules 215 End plates in steam space:
 Material steel Thickness 1½" Pitch of stays 18" x 18" How are stays secured J.P.B. Working pressure by rules 195 Material of stays steel
 Area at smallest part 6.33 sq. ft. Area supported by each stay 324 sq. in. Working pressure by rules 203 Material of Front plates at bottom steel
 Thickness 7/8" Material of Lower back plate steel Thickness 3/32" Greatest pitch of stays 15" x 9½" Working pressure of plate by rules 207
 Diameter of tubes 3½" Pitch of tubes 4¾" Material of tube plates steel Thickness: Front 7/8" x 3/4" Back 7/8" Mean pitch of stays 9½"
 Pitch across wide water spaces 15" Working pressures by rules 250 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 10¾" x 1¾" Length as per rule 35.8" Distance apart 11" Number and pitch of stays in each Three 8"
 Working pressure by rules 197 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 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:— *Two top end bolts & nuts, two bottom end bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of air, feed & bridge pump valves, one main donkey, check valve, air pump ring studs & nuts, one safety valve spring 3 boiler tubes & a quantity of bolts & nuts & iron of various sizes.*

The foregoing is a correct description,
for CHARLES D. HOLMES & CO. LTD.

Charles D. Holmes

Manufacturer.

Dates of Survey while building { During progress of work in shops -- *1916: Sep 21, Oct 20, 25, 31, Nov 15, 18, Dec 5, 9, 21, 29, 1917: Jan 5, 9, 12, 16, 23, 25, 30, Feb 1, 7, 9, 13, 14, 19, 21, 23*
During erection on board vessel -- *24, 28, Mar 5, 8, 9, 15, 21, 29, 31, Jun 4, 9, 14, Jul 19, 23, 24, 27, Aug 20, 24, 27, 30, 31, Sep 7.*
Total No. of visits *51*

Is the approved plan of main boiler forwarded herewith *Yes*

" " " donkey " " " " *Yes*

Dates of Examination of principal parts—Cylinders *21-5-17* Slides *13-6-17* Covers *4-6-17* Pistons *9/13-6-17* Rods *13-6-17*
Connecting rods *9-6-17* Crank shaft *9-6-17* Thrust shaft *27-7-17* Tunnel shafts *✓* Screw shaft *23-2-17* Propeller *23-2-17*
Stern tube *18-2-17* Steam pipes tested *27-8-17* Engine and boiler seatings *21-2-17* Engines holding down bolts *24-8-17*
Completion of pumping arrangements *7-9-17* Boilers fixed *24-8-17* Engines tried under steam *7-9-17*
Completion of fitting sea connections *21-2-17* Stern tube *21-2-17* Screw shaft and propeller *24-2-17*
Main boiler safety valves adjusted *31-8-17* Thickness of adjusting washers *P3/2 P 5/16*

Material of Crank shaft *Iron* Identification Mark on Do. *1784 FLS* Material of Thrust shaft *Iron* Identification Mark on Do. *1801 FLS*

Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Iron* Identification Marks on Do. *1735 FLS*

Material of Steam Pipes *Solid drawn copper* Test pressure *400 lbs.*

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 *yes* If so, state name of vessel *Refundo de*

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 & the rules of this Society, the materials & workmanship are good. The boiler & steam pipes have been tested as above by hydraulic pressure & found sound & good. The machinery has been properly fitted & secured on board the vessel & on completion tested under full working conditions & found satisfactory. The safety valves have been tested under steam for accumulation which did not exceed 200 lbs. in my opinion the vessel is eligible for the record & L.M.C. 9-17.*

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 9.17.

The amount of Entry Fee ... £ 1 : 0 :
Special ... £ 12 : 0 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : 7 :
When applied for, *20/9/17*
When received, *28/9/17*

Frank A. Sturgeon
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

+ L.M.C. 9.17

TUE 25 SEP 1917



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Foundation