

REPORT ON MACHINERY.

No. 30147

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" (Number of Visits 51)

Master Built at Beverley By whom built Cook Wilton & Gommell Tons { Gross 258 Net 113
When built 1917-9

Engines made at Hull By whom made C. D. Holmes & Co. L^{td} (1170) when made 1917-9

Boilers made at Hull By whom made C. D. Holmes & Co. L^{td} 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 12 1/2" - 22" - 35" Length of Stroke 24" Revs. per minute 120 Dia. of Screw shaft as per rule 7.31" Material of screw shaft Iron
 as fitted 7 1/2"
 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 35 1/2"
 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 4 1/2" x 3 1/4" Dia. of thrust shaft under
 collars 7" Dia. of screw 8"-9" Pitch of Screw 10"-9" No. of Blades 4 State whether moceable no Total surface 29 sq. ft.
 No. of Feed pumps one Diameter of ditto 2 3/8" Stroke 14 1/4" Can one be overhauled while the other is at work ✓
 No. of Bilge pumps one Diameter of ditto 2 3/8" Stroke 14 1/4" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines Two 2 1/2" cylinders Sizes of Pumps 6 1/4" x 6" 5 1/4" 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 yeater
 No. of Bilge Injections one sizes 3 1/2" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 1/2" cylinder
 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 162" Length 10'-6" Material of shell plates steel
 Thickness 1 3/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double
 long. seams J.P. & B. 1 Diameter of rivet holes in long. seams 1 1/32" Pitch of rivets 8 1/16" Top of plates or width of butt straps 16 5/8"
 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 1 1/16" No. and Description of Furnaces in each boiler Three plain Material steel Outside diameter 40"
 Length of plain part top 69 3/4" crown 72 1/2" bottom 71 1/2" Description of longitudinal joint welded No. of strengthening rings ✓
 Working pressure of furnace by the rules 205 Combustion chamber plates: Material steel Thickness: Sides 1 1/16" Back 23 3/32" 6 1/4" Top 11 1/16" Bottom 1 1/16"
 Pitch of stays to ditto: Sides 9 3/4" x 8" Back 9 7/8" x 8 3/4" Top 11 x 8 6 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. in Area supported by each stay 86.5 sq. in Working pressure by rules 215 End plates in steam space:
 Material steel Thickness 1 5/32" 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. in 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 9 1/2" Working pressure of plate by rules 207
 Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" Material of tube plates steel Thickness: Front 7/8" + 3/4" Back 7/8" Mean pitch of stays 9 1/2"
 Pitch across wide water spaces 15" Working pressures by rules 250 Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 10 3/4" x 1 3/4" 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 ✓

W781-0160

If steel, state whether, and when, one will be used

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: Sept 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, 18, 21, 23*
{ During erection on board vessel -- } *24, 28, Mar 1, 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*

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

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.

TUE 25 SEP. 1917

Committee's Minute
Assigned

+ L.M.C. 9.17



© 2021
Lloyd's Register
Foundation