

REPORT ON MACHINERY.

No. 29617

Date of writing Report 19-10-16 When handed in at Local Office 25-10-16 Port of Hull
 No. in Survey held at Hull Date, First Survey Jan. 5-15 Last Survey 18-10-16 1916
 Reg. Book. 245 on the steel screw trawler "Lapageria" (Number of Visits 44)
 Master Built at Beverley By whom built Cook, Weller & Gensomell Tons Gross 261 Net 126
 Engines made at Hull By whom made C. D. Holmes & Co. Ltd. when made 1916-10
 Boilers made at Hull By whom made C. D. Holmes & Co. Ltd. when made 1916-10
 Registered Horse Power Owners A. Robinson Port belonging to Grimsby
 Nom. Horse Power as per Section 28 79 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders Three No. of Cranks 3
 Dia. of Cylinders 12 3/4"-22"-36" Length of Stroke 24" Revs. per minute Dia. of Screw shaft as per rule 7 1/2" Material of screw shafts as fitted 7 5/8" 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 35 1/2"
 Dia. of Tunnel shaft as per rule 6 5/8" Dia. of Crank shaft journals as per rule 6 1/2" Dia. of Crank pin 7 1/2" Size of Crank webs 13 1/2" x 4 1/2" Dia. of thrust shaft under collars 7 1/2" Dia. of screw 9-3" Pitch of Screw 10-8" No. of Blades 4 State whether moveable no Total surface 30 ft²
 No. of Feed pumps one Diameter of ditto 2 1/4" Stroke 24" Can one be overhauled while the other is at work ✓ 63.5 E.H.P.
 No. of Bilge pumps one Diameter of ditto 2 1/8" Stroke 24" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines one 2 1/2" Sizes of Pumps 5", 2 3/4" x 5" Flywheel 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 2 1/2" exctr.
 No. of Bilge Injections one size 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 1/2" exctr.
 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 wooden 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 4-2-16 of Stern Tube 4-2-16 Screw shaft and Propeller 4-2-16
 Is the Screw Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

OILERS, &c.—(Letter for record S) Manufacturers of Steel Stewarts & Lloyd
 Total Heating Surface of Boilers 1355 Is Forced Draft fitted no No. and Description of Boilers one single ended
 Working Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs. Date of test 12-9-16 No. of Certificate 3161
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 45.7 ft² No. and Description of Safety Valves to each boiler two spring loaded Area of each valve 4.9 ft² Pressure to which they are adjusted 185 lbs. Are they fitted with easing gear yes
 Smallest distance between boilers on uptakes and bunkers or woodwork 7" Mean dia. of boilers 15 1/8" Length 10-6" Material of shell plates steel
 Thickness 1 3/32 Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double long. seams 7 R.R.B. Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 7/8" Lap of plates or width of butt straps 15 3/8"
 Per centages of strength of longitudinal joint rivets 87.8 plate 84.5 Working pressure of shell by rules 180 lbs. Size of manhole in shell 16" x 12"
 Size of compensating ring 7" x 1 3/32 No. and Description of Furnaces in each boiler three plain Material steel Outside diameter 38"
 Length of plain part top 79 1/2" bottom 74" Thickness of plates crown 2 7/16" Description of longitudinal joint welded No. of strengthening rings 23 1/2"
 Working pressure of furnace by the rules 185 Combustion chamber plates: Material steel Thickness: Sides 2 3/32" Back 2 3/32" Top 2 3/32" Bottom 2 3/32"
 Pitch of stays to ditto: Sides 11" x 8 1/2" Back 11" x 8 1/2" Top 11" x 9 1/4" stays are fitted with nuts or riveted heads nuts Working pressure by rules 185
 Material of stays steel Diameter at smallest part 2 1/4" Area supported by each stay 116 ft² Working pressure by rules 186 End plates in steam space: Material steel Thickness 1 1/16" Pitch of stays 8" x 16" How are stays secured 2 x 1/4" Working pressure by rules 185 Material of stays steel
 Diameter at smallest part 5 27/32 Area supported by each stay 288 ft² Working pressure by rules 190 Material of Front plates at bottom steel
 Thickness 7/8" Material of Lower back plate steel Thickness 2 7/32 Greatest pitch of stays 14" x 8 1/2" Working pressure of plate by rules 184
 Diameter of tubes 3 1/2" Pitch of tubes 5" Material of tube plates S Thickness: Front 7 1/8" + 3/16" Back 7/8" Mean pitch of stays 11 1/4"
 Pitch across wide water spaces 14" Working pressures by rules 216 lbs. Girders to Chamber tops: Material steel Depth and thickness of girder at centre 9" x 1 3/4" Length as per rule 34.93" Distance apart 9' ctr. Number and pitch of stays in each two 11"
 Working pressure by rules 202 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 ✓
 If 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 ✓

009278-009286-0012

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 circulating feed & bilge pump valves, one set of donkey pump valves, 6 gunting studs & nuts, one main & one donkey check valve, two safety valve springs & a quantity of bolts & nuts & iron of various sizes.

The foregoing is a correct description,

p. pro CHARLES D. HOLMES & CO. LTD.

Harold Sheardan DIRECTOR

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1916: Jan 5, 12, 14, 15, 31, Feb 3, 4, 21, 29, Mar 3, 8, 23, May 5, June 2, 22, 27, Jul 4, 7, 10, 14, 21, 24, 28, 31.
During erection on board vessel - - Aug 3, 8, 9, 15, 19, 23, 28, Sep 2, 5, 7, 11, 12, 20, 25, 27, 29, Oct 6, 10, 18.
Total No. of visits 44.

Is the approved plan of main boiler forwarded herewith ☒ Is the plan of donkey boiler forwarded herewith ☒

Dates of Examination of principal parts - Cylinders 31-7-16 Slides 23-8-16 Covers 23-8-16 Pistons 9-8-16 Rods 23-8-16
Connecting rods 19-8-16 Crank shaft 28-7-16 Thrust shaft 14-7-16 Tunnel shafts ✓ Screw shaft 31-1-16 Propeller 31-1-16
Stern tube 31-1-16 Steam pipes tested 29-9-16 Engine and boiler seatings 4-2-16 Engines holding down bolts 25-9-16
Completion of pumping arrangements 18-10-16 Boilers fixed 25-9-16 Engines tried under steam 18-10-16
Main boiler safety valves adjusted 10-10-16 Thickness of adjusting washers 7 3/8" & 3/8"
Material of Crank shaft Iron Identification Mark on Do. 1714 FLS Material of Thrust shaft Iron Identification Mark on Do. 1707 FLS
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shaft Iron Identification Marks on Do. 1556 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? no ✓ If so, state name of vessel ✓

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 machinery has been properly fitted & secured on board the vessel & on completion tried under steam & found satisfactory. The safety valves have been tested for accumulation which did not exceed 195 lbs. In my opinion the vessel is eligible for the record & L.M.C. 10, 16.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 10, 16.

The amount of Entry Fee ... £ 1 : 0 :
Special ... £ 11 : 17 :
Donkey Boiler Fee ... £
Travelling Expenses (if any) £ 2/-
When applied for, 30/10/1916
When received, 31/10/1916

Frank A. Sturgeon

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

Committee's Minute

TUE 7-NOV. 1916

Assigned

+ L.M.C. 10, 16

MACHINERY CERTIFICATE WRITTEN



© 2021

Lloyd's Register Foundation