

REPORT ON MACHINERY.

No. 82560

Date of writing Report 23 Dec 1919 When handed in at Local Office 3 JAN 1920 Received at London Office 3 JAN 1920
 No. in Survey held at Lowestoft Port of Spewich
 Reg. Book. Date, First Survey Nov. 18th '18 Last Survey 16 Dec 1919
 on the Machinery of Steel Drifter "Current" (Number of Visits 35 (willy fitting on board))

Master Built at Lowestoft By whom built John Chambers Ltd No. 499 When built 1919
 Engines made at Lowestoft By whom made John Chambers Ltd No. 219 when made 1919
 Boiler made at Oldbury By whom made Edwin Danks & Co Ltd No. 506 when made 1919
 Registered Horse Power Owners Admiralty Port belonging to
 Nom. Horse Power as per Section 28 43 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 9 1/2", 15 1/2", 26" Length of Stroke 18" Revs. per minute Dia. of Screw shaft as per rule 5.72" Material of Steel
 as fitted 4" screw shaft
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube No liner 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 2.1"
 Dia. of Tunnel shaft as per rule 4.8" Dia. of Crank shaft journals as per rule 5.04" Length of stern bush 2.1"
 as fitted none as fitted 5 1/2" Dia. of Crank pin 5 1/2" Size of Crank webs 10 x 3 1/2" Dia. of thrust shaft under
 collars 5 1/2" Dia. of screw 6-9" Pitch of Screw 8-6" No. of Blades 4 State whether moveable No Total surface 18 sq ft
 No. of Feed pumps one Diameter of ditto 2 1/2" Stroke 9" Can one be overhauled while the other is at work ✓
 No. of Bilge pumps one Diameter of ditto 2" Stroke 9" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines one Sizes of Pumps 5 1/2" x 3 1/2" x 5" Duplex No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 2" + 1 Ejector 2" In Holds, &c. One 2"
 No. of Bilge Injections one size 2 1/2" Connected to condenser, or to circulating pump cpp Is a separate Donkey Suction fitted in Engine room & size Yes 2"
 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 ✓
 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 stowhold 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 None How are they protected ✓
 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 John Spencer & Sons Ltd
 Total Heating Surface of Boilers 814 sq ft 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 21-8-19 No. of Certificate 419
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 30 sq ft No. and Description of Safety Valves to
 each boiler Two Spring Loaded Area of each valve 3.9 sq in Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes
 Greatest distance between boilers or uptakes and bunkers or woodwork 6" Mean dia. of boilers Length Material of shell plates
 Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 Percentages of strength of longitudinal joint rivets..... Working pressure of shell by rules Size of manhole in shell
 of compensating ring plate.....
 Length of plain part top..... Thickness of plates crown..... Description of longitudinal joint Material Outside diameter
 bottom..... bottom.....
 Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 No. of strengthening rings
 Material of stays to ditto Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
 Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 Length as per rule Distance apart Number and pitch of stays in each
 Working pressure by rules Steam dome: description of joint to shell
 Thickness of shell plates Material Description of longitudinal joint % of strength of joint
 Diam. of rivet holes
 Working pressure of shell by rules Crown plates Thickness How stayed
 Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Pressure to which each is adjusted Is Easing Gear fitted

L7900-9051M



IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied: - 2 top & 2 bottom end bolts & nuts. 2 main bearing bolts & nuts. 1 set coupling bolts & nuts. 1 set feed pump valves. 1 set helge pump valves. 1 set circulating pump valves. 6 condenser tubes. 12 ferrules. 50 tape packings. 2 doz assorted bolts & nuts. 6 cylinder cover studs & nuts. 6 junk ring bolts & nuts. 1 valve for main check. 1 valve for donkey check. 1 spring for safety valves. 6 gauge glasses with rings. 3 boiler tubes. 1 set firebars with wing bars for both furnaces.

The foregoing is a correct description,

H. Hooper

Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1918: - Nov 18, 26, Dec 11 (1918), Jan 1, 9, 15, Mar 12, 26, Apr 8, May 30, June 11, 27, July 9, 17, 23, Aug 12, 29. During erection on board vessel --- 1919: - May 28, 30, Jun 11, July 1, 9, Aug 29, Oct 17, 19, 24, Nov 4, 11, 19, 25, Dec 2, 5, 9, 12, 16. Total No. of visits 35. Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts: Cylinders 18-11-18, 15-1-19, 8-5-19, 11-6-19. Slides 11-12-18, 11-6-19. Covers 11-12-18, 15-1-19. Pistons 1-1-19. Rods 12-3-19, 11-6-19. Connecting rods 12-3-19, 11-6-19. Crank shaft 26-3-19. Thrust shaft 12-3-19. Tunnel shafts ✓. Screw shaft 12-3-19, 26-3-19. Propeller 26-3-19. Stern tube 26-3-19, 8-5-19. Steam pipes tested 4-11-19. Engine and boiler seatings 1-7-19. Engines holding down bolts 11-11-19. Completion of pumping arrangements 25-12-19, 5-19. Boilers fixed 17-10-19. Engines tried under steam 3-12-19. Completion of fitting sea connections 28-5-19, 30-5-19. Stern tube 28-5-19, 30-5-19. Screw shaft and propeller 30-5-19. Main boiler safety valves adjusted 2-12-19. Thickness of adjusting washers P 1/2", S 15/32". Material of Crank shaft *Steel*. Identification Mark on Do. 4881 JRM. Material of Thrust shaft *Steel*. Identification Mark on Do. 111 abt. Material of Tunnel shafts ✓. Identification Marks on Do. ✓. Material of Screw shafts *Steel*. Identification Marks on Do. 94 abt. Material of Steam Pipes *Copper*. Test pressure 360 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 *"Fleet" etc*. General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel has been built under Special Survey and in accordance with the Specification and the Society's Rules. Material & workmanship are sound & good. The Engines together with the Boilers, have been examined whilst being installed in the vessel, afterwards tried under full power working conditions and found satisfactory, Safety valves adjusted under steam, and is now eligible in our opinion to have the Record + L.M.C. 12-19.*

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 12-19.

JWD 7/1/20
ARR

The amount of Entry Fee ... £ 9 : : When applied for, 09 JAN 1920 19. Special Fee as agreed with admr. Donkey Boiler Fee ... £ 4 : 10 : : When received, 10-4-1920 JSH

Robert Rae & A.C. Farmine
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute Assigned

TUE JAN 13 1920
+ L.M.C. 12.19

FRI. NOV. 17 1922

© 2021

Lloyd's Register Foundation

Rpt
Date
No.
Reg.
Master
Engine
Boiler
Register
MUI
(Letter
Boiler
No. of
safety
Are the
Smaller
Material
Descrip
Lap of
rules
boiler
Descrip
plates
Top
smallest
Pitch of
Area sup
Lower bo
Pitch of
water spo
girder at
Working
Diameter
Pitch of ri
UPER
Date of Tes
Diameter of
Dates
Survey
while
uilding
ENER
Su
Surve
Travelling
mitted
signed