

REPORT ON MACHINERY.

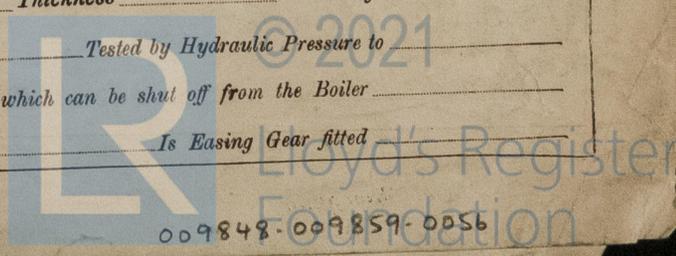
Received at London Office WED. 29 MAY. 1918

Date of writing Report 25/1/18 1918 When handed in at Local Office 27/1/18 1918 Port of Sheffield
 No. in Survey held at Lowby Bridge Date, First Survey 24/1/18 Last Survey 15/1/18 1918
 Reg. Book. Stul Screw Drifter 512 NODE (Number of Visits 26)
 on the Stul Screw Drifter 512 Tons Net Gross 18
 Master Lowby Built at Lowby By whom built Messrs Colby Bros L^c When built 1918
 Engines made at Lowby Bridge By whom made Messrs Pollard & Wiggell L^d when made 1918
 Boilers made at Oldbury By whom made Hanks & Co Ltd when made 1918
 Registered Horse Power 270 Owners British Admiralty Port belonging to ✓
 Nom. Horse Power as per Section 28 42.4 Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted ✓

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 9 1/2" x 16 1/2" x 26" Length of Stroke 18" Revs. per minute 5.45 Dia. of Screw shaft 5.45 Material of screw shaft Stul
 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 24"
 Dia. of Tunnel shaft 4.79 Dia. of Crank shaft journals 5.01 Dia. of Crank pin 5 1/2" Size of Crank webs 10 x 8 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 1/2"
 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 1/2" Stroke 9" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines one Sizes of Pumps 5 1/4" x 3 1/2" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 2" dia. one ejector 2" In Holds, &c. One 2" dia
 No. of Bilge Injections one sizes 2 1/2" Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room & size 2" Yes
 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 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 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 B) Manufacturers of Steel
 Total Heating Surface of Boilers 814 1/2 Is Forced Draft fitted ✓ No. and Description of Boilers One single ended
 Working Pressure 180 1/2 Tested by hydraulic pressure to 360 1/2 Date of test 13.5.17 No. of Certificate 389
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 30 1/2 No. and Description of Safety Valves to
 each boiler 2. Spring loaded Area of each valve 3.98 Pressure to which they are adjusted 180 1/2 Are they fitted with easing gear Yes
 Smallest 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
 long. seams ✓ Diameter of rivet holes in long. seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps
 Per centages of strength of longitudinal joint ✓ Working pressure of shell by rules ✓ Size of manhole in shell
 Size of compensating ring ✓ No. and Description of Furnaces in each boiler ✓ Material ✓ Outside diameter
 Length of plain part ✓ Thickness of plates ✓ Description of longitudinal joint ✓ No. of strengthening rings
 Working pressure of furnace by the rules ✓ Combustion chamber plates: Material ✓ Thickness: Sides ✓ Back ✓ Top ✓ Bottom ✓
 Pitch 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 ✓
 Area at smallest part ✓ Area supported by each stay ✓ Working pressure by rules ✓ Material of Front plates at bottom
 Thickness ✓ Material ✓ Lower back plate ✓ Thickness ✓ Greatest pitch of stays ✓ Working pressure of plate by rules
 Diameter of tube ✓ Pitch of tubes ✓ Material of tube plates ✓ Thickness: Front ✓ Back ✓ Mean pitch of stays
 Pitch across ✓ Working pressures by rules ✓ Girders to Chamber tops: Material ✓ Depth and
 thickness of girder at centre ✓ Length as per rule ✓ Distance apart ✓ Number and pitch of stays in each
 Working pressure by rules ✓ 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 ✓



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IS A DONKEY BOILER FITTED? ✓

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:—

2 connecting rod bolts (top end) ✓	1 set feed pop valves ✓	6 cylinder cover studs & nuts
2 " " " (bolt end) ✓	1 " " " " ✓	6 junk ring bolts & nuts
2 main bearing bolts ✓	1 " air pop valves ✓	1 valve for main check
1 set coupling bolts ✓	1 " air " " ✓	1 " " donkey check
	6 condenser tubes	1 spring for safety valve
	12 " ferrules	6 gauge glass rings
		3 plain boiler tubes
		1 set of fire bars, firing bars complete
		for both furnaces

A quantity of bolts, nuts & iron of various sizes.

The foregoing is a correct description,

E. P. Poole Manufacturer.

Dates of Survey while building

During progress of work in shops --	29/6-18/7-30/7-9/8-24/8-25/9-7/10-24/10-5/11-12/11-21/12-11/1-24/1-4/2-14/2-1/3-13/3-27/3-9/4-2/5-15/5/8
During erection on board vessel ---	June 18 July 12 Sep 14-25 Oct 2-8-10-11-12-16
Total No. of visits	31

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 13/7/18 15/9/18 Slides 13/7/18 15/9/18 Covers 24/8/18 17/9/18 Pistons 13/7/18 15/9/18 Rods 13/7/18 15/9/18

Connecting rods 13/7/18 15/9/18 Crank shaft 9/4/18 17/9/18 Thrust shaft 9/4/18 17/9/18 Tunnel shafts — Screw shaft 11/1/18 27/3/18 Propeller 27/3/18

Stern tube 4/1/18 27/3/18 Steam pipes tested 14-9-18 Engine and boiler seatings 14-9-18 Engines holding down bolts 14-9-18

Completion of pumping arrangements 25-9-18 Boilers fixed 18-6-18 Engines tried under steam 25-9-18

Completion of fitting sea connections 10-5-18 Stern tube 10-5-18 Screw shaft and propeller 10-5-18

Main boiler safety valves adjusted Thickness of adjusting washers P. 1/2 S. 1/2

Material of Crank shaft *Steel* Identification Mark on Do. 4662 J.A.H. Material of Thrust shaft *Steel* Identification Mark on Do. 4663 J.A.H.

Material of Tunnel shafts Identification Marks on Do. ✓ Material of Screw shafts *Steel* Identification Marks on Do. 540 R.F.M.

Material of Steam Pipes *Copper* ✓ Test pressure 360 lb ✓

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

Is this machinery duplicate of a previous case? If so, state name of vessel -

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, materials & workmanship are sound & good.*

The engine has been forwarded to Messrs Colby Bros & Co. Ltd

Lowestoft - No 92 vessel

The engine & boiler examined whilst being installed in the vessel, afterwards tried under working conditions & found satisfactory, & is now eligible in our opinion for the record of + L.M.C. 10-18 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 10.18.

J.W.D. 30/12/18

The amount of Entry Fee ... £	9 : 0 : 0	When applied for,	25/11 1918
Special ... £	94 : 10 : 0	When received,	24/12/18
Donkey Boiler Fee ... £	:		
Travelling Expenses (if any) £	:		7.12 1918

P. F. Norton & A. E. Farmer
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI 3 JAN 15 1919

+ L.M.C. 10.18



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