

REPORT ON MACHINERY.

No. 39147

Received at London Office

Date of writing Report

19

When handed in at Local Office

20/9/19 Port of Glasgow

No. in Survey held at
Reg. Book.

Glasgow

Date, First Survey

Last Survey 14th Sept 1919

on the Twin Screw Min. Sweeper "Repton"

(Number of Visits)

Tons
Gross
Net

Master Built at Glasgow By whom built A. J. Inglis Ltd (324) When built 1919

Engines made at Glasgow By whom made A. J. Inglis Ltd (434) when made 1919

Boilers made at Renfrew By whom made Babcock & Wilcox Ltd (314) when made 1919

Registered Horse Power Owners Admiralty Port belonging to

Nom. Horse Power as per Section 28 378 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Twin Triples

No. of Cylinders 6 No. of Cranks 6

Dia. of Cylinders 13 1/2 (2) 2 1/2 (2) 3 1/2 (2) Length of Stroke 21 Revs. per minute Dia. of Screw shaft as per rule 7 3/4 as fitted 7 1/4 Material of screw shaft S

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 No 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 No If two

liners are fitted, is the shaft lapped or protected between the liners No Length of stern bush 3'-0"

Dia. of Tunnel shaft as per rule 6 3/4 as fitted 6 1/4 Dia. of Crank shaft journals as per rule 7 1/8 as fitted 7 1/4 Dia. of Crank pin 7" Size of Crank webs 14 x 5" Dia. of thrust shaft under

collars 6 3/4 Dia. of screw 6'-0" Pitch of Screw 8'-3" No. of Blades 4 State whether moveable No Total surface 18 sq ft

No. of Feed pumps None Diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Bilge pumps None Diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Donkey Engines 6 Sizes of Pumps 3 1/2" x 1 1/2" x 12" 2 1/2" x 8" x 15" 1 1/2" x 4 1/2" x 12" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 1-2 1/2" Howard, 1-2 1/2" Off. 1-3 1/2" Spruit In Holds, &c. 13 in all. In each Stokhold 1-2 1/2" Hor. 1-2 1/2"

Aft. 2 Injectors 3" Dia. in Stokholds

No. of Bilge Injections 2 sizes 6" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size 1-3 1/2" x 2-1/2"

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 Yes

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves

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 Below

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 Bilge mains, Main & Aux Steam How are they protected Steam pipes insulated with Guard plates

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 12.5.19 of Stern Tube 11.3.19 Screw shaft and Propeller 12.5.19

Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door None worked from Access from deck hatches

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Stewart & Lloyd, St. B. of Scotland, D. Colville & Sons

Total Heating Surface of Boilers 6990 sq ft Is Forced Draft fitted Yes No. and Description of Boilers Two Yarrow Water Tube

Working Pressure 235 lbs Tested by hydraulic pressure to 352 1/2 lbs Date of test 23.7.25.4.19 No. of Certificate 14695 & 14699

Can each boiler be worked separately Yes Area of fire grate in each boiler 65 sq ft No. and Description of Safety Valves to

each boiler Two Cochran's Full Port Area of each valve 2.46 sq in Pressure to which they are adjusted 240 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 9" Mean dia. of boilers 4'-1 1/8" Length 9'-6" Material of shell plates S

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 rivets 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 top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

bottom Working pressure of furnace by the rules Combustion chamber plates Material Thickness: Sides Back Top Bottom

Pitch of stays to auto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space

5. Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

20. Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

33. Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

11. Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

Pitch across wide water spaces 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

17. Working pressure by rules 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

29. Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

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

006067-006079-0148

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No.	Description	When made	Where fixed
Made at	By whom made		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted
If fitted with casing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey

SPARE GEAR. State the articles supplied:— Spare gear and outfit as per approved Admiralty Specification has been placed on board.

The foregoing is a correct description,

Manufacturers.

A. & J. INGLIS LIMITED

William Booth, Secy.

Dates of Survey while building: During progress of work in shops -- 1914 Aug 29, Sep 13, 10, 15 Oct 3, 18, 24, 25 Nov 1, 8, 15, 19, 21, 29 Dec 4, 5, 7, 11, 18, 24, 25, 28 1918 Jan 10, 11, 16, 17, 21, 22 Feb 18, 21, Mar 4, 12, 18, 19, 20, 22, 25, 26, 28 Apr 3, 4, 15, 16, 18, 22, 23, 29 May 12, 6, 14, 24 June 3, 10, 21, 24, 25, 27, 28, 29, 30 July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 Aug 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 Sept 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 Oct 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 Nov 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 Dec 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30

Dates of Examination of principal parts—Cylinders 10.1.19 Slides 11.3.19 Covers 13.3.19 Pistons 11.3.19 Rods 11.3.19 Connecting rods 11.3.19 Crank shaft 28.3.19 Thrust shaft 28.3.19 Intermediate Tunnel shafts 30.4.19 Screw shaft 18.4.19 Propeller 8.1.19 Stern tube 11.3.19 Steam pipes tested 18.8.19 Engine and boiler seatings 12.5.19 Engines holding down bolts 30.6.19 Completion of pumping arrangements 29.8.19 Boilers fixed 14.8.19 Engines tried under steam 22.8.19 Main boiler safety valves adjusted 22.8.19 Thickness of adjusting washers Forward Boiler P¹/₈ 3¹/₁₆ Off Boiler P¹/₈ 3¹/₁₆ Material of Crank shaft S Identification Mark on Do. 476 M 437 Material of Thrust shaft S Identification Mark on Do. 483 M 4 Area s Material of Intermediate Tunnel shafts S Identification Marks on Do. 483 M 437 Material of Screw shafts S Identification Marks on Do. 483 M 4 Lower Material of Steam Pipes Solid Drawn Steel Test pressure 70.5 lbs per sq in

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Machinery has been built under Special Survey in accordance with the approved Admiralty Specification and the Rules of the Society. The workmanship and materials of good quality throughout. The Machinery & Boilers have been securely fitted on board and under steam and found satisfactory and is now eligible in my opinion for the Record of + LMC 8.19 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + LMC 9.19 F.D.

The amount of Entry Fee .. £ : : When applied for. Special .. £ 125. 14 : : 23.9.19 When received. Donkey Boiler Fee .. £ : : 28.11.19 Travelling Expenses (if any) £ : : 1/2

Committee's Minute GLASSGOW 23 SEP 1919

Assigned + LMC 9.19

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

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Surveyor's Signature