

Rpt. 4.

REPORT ON MACHINERY

No. 31430

Received at London Office

WED. 1-MAY. 1918

Date of writing Report 25-4-1918 When handed in at Local Office 24-4-1918 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 11 April 1917 Last Survey 26-4-1918
 Reg. Book. on the Machinery for H. M. Husey Trawler "ROBERT PETER DOUBLE" (Number of Visits) 30

Master Built at Gool By whom built Gool S. B. Co & 221 When built 1918
 Gross 324 Tons Net 149

Engines made at Coatbridge By whom made Beardmore & Co & 496 when made 1918
 Boilers made at Hull By whom made C. D. Holmes & Co when made 1918

Registered Horse Power Owners H. M. Government Port belonging to -

Nom. Horse Power as per Section 28 84 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 13, 23, 34 Length of Stroke 26 Revs. per minute 115 Dia. of Screw shaft as per rule 4.85 Material of screw shaft as fitted 8.25 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 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 3-0

Dia. of Tunnel shaft as per rule 7.02 Dia. of Crank shaft journals as per rule 4.39 Dia. of Crank pin 4 1/2 Size of Crank webs 14 1/4 4 1/8 of thrust shaft under

collars 4 1/2 Dia. of screw 9-4 1/2 Pitch of Screw 11-0 No. of Blades 4 State whether moveable No Total surface 33 sq

No. of Feed pumps 1 Diameter of ditto 2 3/8 Stroke 14 3/4 Can one be overhauled while the other is at work -

No. of Bilge pumps 1 Diameter of ditto 2 3/8 Stroke 14 3/4 Can one be overhauled while the other is at work -

No. of Donkey Engines 1 3 1/2 Sizes of Pumps 6 x 4 1/2 x 6 Dup + 1-5 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Two - 2 In Holds, &c. Three - 2

all connections connected to ejector.

No. of Bilge Injections 1 sizes 3 1/2 Connected to condenser, or to circulating pump C. P. Is a separate Donkey Suction fitted in Engine room & size yes 3 1/2 ejector.

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 Suctions How are they protected wooden 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

Dates of examination of completion of fitting of Sea Connections 6-3-18 of Stern Tube 6-3-18 Screw shaft and Propeller 6-3-18

Is the Screw Shaft Tunnel watertight V Is it fitted with a watertight door V worked from V

BOILERS, &c.—(Letter for record S) Manufacturers of Steel

Total Heating Surface of Boilers 1440 sq ft Forced Draft fitted No. and Description of Boilers 1 Single ended marine

Working Pressure 200 LBS Tested by hydraulic pressure to Date of test No. of Certificate

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

each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork 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

Percentages 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

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 Diameter at smallest part Area supported by each stay Working pressure by rules End plates in stern space:

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom

Diameter 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

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

Working pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

Material Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

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

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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 easing 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:—

As per Admiralty Specification + will be fitted on board
at Goolie. Spare Gear, two top end & two bottom end bolts & nuts, two main bearing bolts & nuts.
1 set of coupling bolts & nuts, one set of air, feed & bilge pump valves, one set of junk ring studs & nuts,
one main & one donkey check valve, two valves for donkey pump,
one safety valve spring, 5 condenser tubes, one set of firebars, & a
quantity of bolts & nuts of various sizes.

The foregoing is a correct description.

WILLIAM BEARDMORE & CO., LIMITED Manufacturer. per R. Geddon

Dates of Survey while building
During progress of work in shops -- 1914 July 26, Sep. 11, Oct. 5, 12, 25, Nov. 6, 13, 16, 22, 26, 29, Dec. 3, 10, 14, 20, 1918 Jan. 9, 15, 21, 28.
During erection on board vessel -- Feb. 4, 16, 19, 25, Mar. 4, 11, 22, 24, Apr. 14, 26. (see Hull Rpt. No. 30545)
Total No. of visits 30

Dates of Examination of principal parts—Cylinders 10-12-14, Slides 10-12-14, Covers 10-12-14, Pistons 11-3-18, Rods 11-3-18.
Connecting rods 11-3-18, Crank shaft 11-3-18, Thrust shaft 11-3-18, Tunnel shafts 11-3-18, Screw shaft 11-3-18, Propeller 11-3-18.
Stern tube 28-5-18, Steam pipes tested 10-5-18, Engine and boiler seatings 6-3-18, Engines holding down bolts 2-5-18.
Completion of pumping arrangements 31-5-18, Boilers fixed 15-5-18, Engines tried under steam 28-5-18.
Main boiler safety valves adjusted 28-5-18, Thickness of adjusting washers FORD 7/16, A 3/8.
Material of Crank shaft S, Identification Mark on Do. 4442 G.A.H., Material of Thrust shaft S, Identification Mark on Do. 4442 G.A.H.,
Material of Tunnel shafts Fine, Identification Marks on Do. ~, Material of Screw shafts Iron, Identification Marks on Do. 4442 G.A.H.,
Material of Steam Pipes S.D. Coffey 4" DIA. NO. 7. I.W.G. Test pressure 400 LBS □"

General Remarks (State quality of workmanship, opinions as to class, &c.) The Machinery has been forwarded to Goolie.
The Machinery has been built under special survey in accordance with the Rules of the Society & the approved Admiralty Specification.
The Workmanship & materials are of good quality throughout.
The Machinery is eligible, in my opinion, to have notation, +L.M.C. with date, in the Register Book when it has been securely fitted on board & tried under steam with satisfactory results.

The machinery of this vessel has been properly fitted and secured on board at Goolie, the steam pipe tested as above & on completion the machinery was tested under full power as required by the Admiralty and found satisfactory. The safety valves have been tested for accumulation.

In my opinion the vessel is eligible for the record of +L.M.C. 5-18.

As this vessel is not intended for classification the submission of further action is unnecessary.

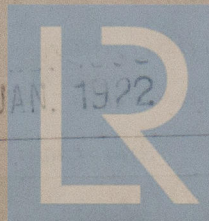
The amount of Entry Fee .. £ : :
ENGINE FEE ONLY .. £ 14 : :
Fitting on board .. £ 7 : :
Donkey Boiler Fee .. £ : :
Travelling Expenses (if any) £ : :
When applied for, 30-4-18
When received, 21-6-18
Paid at 46. 6/9/18

W.D. 5/6/18
Lind. A. Fairman & W. H. Roberts
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute GLASGOW 30 APR 1918

Assigned Deferred for compln. MD

FRI 6 JAN 1922



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