

REPORT ON MACHINERY

No. 30310

TUE. 1 - JAN. 1918

Received at London Office

Date of writing Report 29.12.17 When handed in at Local Office Port of Hull

To. in Survey held at Hull Date, First Survey 28.3.17 Last Survey 14.12.1917

Reg. Book. on the Steel screw Trawler "John Anderson" (Number of Visits 4.0)

Master Beverley Built at Beverley By whom built Cook, Wilton & Sumell Tons Gross 273
Net 109

Engines made at Hull By whom made Amos & Smith Ltd. No. 2926 when made 1917

Boilers made at Hull By whom made Amos & Smith Ltd. No. 2924 when made 1917

Registered Horse Power 83 Owners British Admiralty Port belonging to Hull

Dom. Horse Power as per Section 28 83 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

No. of Cylinders 12 1/2 Length of Stroke 24 Revs. per minute 115 Dia. of Screw shaft 7 1/4 Material of screw shaft 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 Yes

Is 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 Yes If two

Shafts are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 33

No. of Tunnel shaft 6.44 Dia. of Crank shaft journals 6.63 Dia. of Crank pin 7 1/4 Size of Crank webs 14 3/8 Dia. of thrust shaft under bars 7 1/4 Dia. of screw 9.0 Pitch of Screw 11.3 No. of Blades 4 State whether moveable no. Total surface 31.5

No. of Feed pumps one Diameter of ditto 2 3/4 Stroke 12 Can one be overhauled while the other is at work Yes

No. of Bilge pumps one Diameter of ditto 2 3/4 Stroke 12 Can one be overhauled while the other is at work Yes

No. of Donkey Engines one Sizes of Pumps 6 1/4, 4 3/4, 6 No. and size of Suctions connected to both Bilge and Donkey pumps one 2" injector

Engine Room two - 2" diam. In Holds, &c. one - 2" diam. in each compartment

All suction also connected to ejector Yes

No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump no. Is a separate Donkey Suction fitted in Engine room of size 2" injector

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 no

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 Wood covering

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 Yes Is it fitted with a watertight door Yes Is it worked from Yes

MANUFACTURERS, &c.—(Letter for record S.) Manufacturers of Steel Messrs John Spencer & Sons Ltd.

Total Heating Surface of Boilers 1450 Is Forced Draft fitted no. No. and Description of Boilers One single ended

Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 8.11.17 No. of Certificate 2924

Can each boiler be worked separately Yes Area of fire grate in each boiler 48 No. and Description of Safety Valves to each boiler two spring loaded

Area of each valve 4.9 Pressure to which they are adjusted 205 Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 8" Mean dia. of boilers 13.0 Length 10.6 Material of shell plates S.

Thickness 1 1/4 Range of tensile strength 28-32 tons Are the shell plates welded or flanged no. Descrip. of riveting: cir. seams Double

Longitudinal seams S.A.S.S. Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 7.71 Lap of plates or width of butt straps 17 3/8

Percentage of strength of longitudinal joint 91.1 Working pressure of shell by rules 200 Size of manhole in shell 16" x 12"

Area of compensating ring 30.40 No. and Description of Furnaces in each boiler 3 plain Material S. Outside diameter 3.2 1/2

Length of plain part 78" Thickness of plates 13/16 Description of longitudinal joint Welded No. of strengthening rings Yes

Working pressure of furnace by the rules 217 Combustion chamber plates: Material S. Thickness: Sides 1/16 Back 1/16 Top 1/16 Bottom 1/16

Length of stays to ditto: Sides 8" x 10" Back 8 3/4" x 9" Top 8" x 9 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 200

Material of stays S. Area at smallest part 2.4 Area supported by each stay 97 Working pressure by rules 222 End plates in steam space: Material S. Thickness 1 1/8 Pitch of stays 16 1/2" x 17 1/2" How are stays secured S.A.S.S. Working pressure by rules 207 Material of stays S.

Area at smallest part 6.10 Area supported by each stay 289 Working pressure by rules 219 Material of Front plates at bottom S.

Thickness 1 1/4 Material of Lower back plate S. Thickness 5/16 Greatest pitch of stays 14 3/4" x 9" Working pressure of plate by rules 203

Diameter of tubes 3 1/2 Pitch of tubes 4 3/4 Material of tube plates S. Thickness: Front 1 1/4 Back 7/8 Mean pitch of stays 10"

Clearance across wide water spaces 14" Working pressures by rules 202 Girders to Chamber tops: Material S. Depth and thickness of girder at centre 9 1/2" x 1 3/4" Length as per rule 34 Distance apart 9 1/4" Number and pitch of stays in each 3 - 8"

Working pressure by rules 206 Steam dome: description of joint to shell Yes % of strength of joint Yes

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

Number of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes

SUPERHEATER. Type Yes Date of Approval of Plan Yes Tested by Hydraulic Pressure to Yes

Material of Test Yes Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve Yes Pressure to which each is adjusted Yes Is Easing Gear fitted Yes

007488-007497-0040

Lloyd's Register Foundation

IS A DONKEY BOILER FITTED?

No.

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Four top end bolts and nuts, two bottom end bolts and nuts, two main bearing bolts and nuts, one set of coupling bolts and nuts. Four condenser tubes, three boiler tubes, one escape valve spring each size two donkey pump suction and delivery valves, one impeller and shaft for circulating pump, a quantity of assorted bolts and nuts and iron of various sizes. + 1 set of Feed & Bilge pump valves.

See Hull ltr 7.1.18.

The foregoing is a correct description.

FOR AMOS & SMITH LTD.

J. Prachebury

Manufacturer.

Dates of Survey while building: During progress of work in shops - - 1917: - Mar. 28, Apr. 21, June 2, 4, 10, 11, 16, 19, 25, 28, 31, Aug. 13, 15, 17, 21, 24, 27, 29, 31, Sep. 4, 10. During erection on board vessel - - 11, 13, 21, 26, 29, Oct. 5, 12, 15, 22, 24, 30, Nov. 2, 5, 6, 7, 8, 10, 16, 22, 27, 29 Dec. 4, 11, 14. Total No. of visits 46.

Is the approved plan of main boiler forwarded with R/L 30.119

Dates of Examination of principal parts: Cylinders 28.7.17. Slides 4.9.17. Covers 16.8.17. Pistons 10.9.17. Rods 10.9.17. Connecting rods 10.9.17. Crank shaft 13.9.17. Thrust shaft 29.8.17. Tunnel shafts ✓. Screw shaft 4.9.17. Propeller 4.9.17. Stern tube 11.9.17. Steam pipes tested 27.11.17. Engine and boiler seatings 11.9.17. Engines holding down bolts 22.11.17. Completion of pumping arrangements 14.12.17. Boilers fixed 22.11.17. Engines tried under steam 8.12.17. Completion of fitting sea connections 11.9.17. Stern tube 11.9.17. Screw shaft and propeller 11.9.17. Main boiler safety valves adjusted 8.12.17. Thickness of adjusting washers P. 3/32. S. 3/32.

Material of Crank shaft Iron Identification Mark on Do. 2009 F.L.S. Material of Thrust shaft Iron Identification Mark on Do. 2014 F.L.S. Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 1826 G.A.

Material of Steam Pipes S.S. 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 Yes.

Is this machinery duplicate of a previous case Yes. If so, state name of vessel "James Perry"

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 and the rules of this Society, the material and workmanship are good, the Boiler and steam pipes have been tested as above and found sound and tight. The machinery has been properly fitted and secured on board the vessel and on completion tested under full power for two hours as required by the Admiralty and found satisfactory. The safety valves have been adjusted under steam and tested for accumulation which did not exceed 208 lbs.

In our opinion the vessel is eligible for the record * L.M.C. 12.17.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 12.17.

AWD 3/1/18 J.M.

The amount of Entry Fee ... £ 1 : 0 : When applied for, Special ... £ 24 : 18 : 28.12.17 Donkey Boiler Fee ... £ - : - : When received, Travelling Expenses (if any) £ : 2 : 5.1.18

Geo. Allan & Frank A. Stanger, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 4 - JAN. 1918

Assigned + L.M.C. 12.17.



Handwritten mark

Vertical text on the left margin: Certificate (if required) to be sent to...