

REPORT ON MACHINERY.

No. 30,489

Received at London Office

TUE 1918

Date of writing Report 24-4-18 19 When handed in at Local Office 26-4-18 19 Port of Hull

No. in Survey held at Hull Date, First Survey 21-1-18 Last Survey 24-4-18 19
Reg. Book. on the steel screw trawler "John Jefferson" (Number of Visits 30 Gross 324Master Built at Selby By whom built Cochrane & Sons Ltd Tons Net 142
Engines made at Hull By whom made Chas. D. Holmes & Co. Ltd (1912) When built 1918-4

Boilers made at Hull By whom made Chas. D. Holmes & Co. Ltd (1913) when made 1918-4

Registered Horse Power Owners British Admiralty Port belonging to

Nom. Horse Power as per Section 28 87 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders Three No. of Cranks 3
 Dia. of Cylinders 13" - 23" - 37" Length of Stroke 26" Revs. per minute 11 Dia. of Screw shaft as per rule 7.9" Material of steel
 as fitted 8.4" screw shaft
 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 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 If two
 liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 35.5"
 Dia. of Tunnel shaft as per rule 7.04" Dia. of Crank shaft journals as per rule 7.39" Dia. of Crank pin 7.5" Size of Crank webs 4 7/8" x 11" Dia. of thrust shaft under
 collars 7.5" Dia. of screw 9-7.5" Pitch of Screw 11-0" No. of Blades 4 State whether moveable no Total surface 33 sq ft
 No. of Feed pumps one Diameter of ditto 2 5/8" Stroke 14 3/4" Can one be overhauled while the other is at work
 No. of Bilge pumps one Diameter of ditto 2 5/8" Stroke 14 3/4" Can one be overhauled while the other is at work
 No. of Donkey Engines one 7.3" cylin Sizes of Pumps 6", 4 1/2" x 6" duplex No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room two 2" dia In Holds, &c. one 2" dia in each compartment
 all suction also connected to cylin
 No. of Bilge Injections one sizes 3 1/2" Connected to condenser to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 3" cylin
 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 suction How are they protected strong 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
 Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel J. Fanner & Sons & Port Talbot etc

Total Heating Surface of Boilers 1440 sq ft Is Forced Draft fitted no No. and Description of Boilers one single ended
 Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 28-3-18 No. of Certificate 3282
 Can each boiler be worked separately Area of fire grate in each boiler 48 sq ft No. and Description of Safety Valves to
 each boiler two spring loaded Area of each valve 4.9 sq in Pressure to which they are adjusted 205 Are they fitted with easing gear yes
 Smallest distance between boilers uptakes and bunkers on woodwork 8" Blagden mean dia. of boilers 165" Length 10'8" Material of shell plates steel
 Thickness 1 5/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double
 long. seams J.R.B.B. Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 3/8" Lap of plates or width of butt straps 18"
 Per centages of strength of longitudinal joint rivets 85.9 plate 85.5 Working pressure of shell by rules 202 Size of manhole in shell 16" x 12"
 Size of compensating ring 7" x 1 5/16" No. and Description of Furnaces in each boiler Three plain Material steel Outside diameter 40"
 Length of plain part top 78 1/2" bottom 69" Thickness of plates crown 3 13/16" Description of longitudinal joint welded No. of strengthening rings
 Working pressure of furnace by the rules 206 Combustion chamber plates: Material steel Thickness: Sides 3/4" Back 2 3/32" Top 3/4" Bottom 3/4"
 Pitch of stays to ditto: Sides 0" x 8" Back 9 3/4" x 8 3/4" Top 11" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 208
 Material of stays steel Area at smallest part 2.07 sq in Area supported by each stay 88 sq in Working pressure by rules 211 End plates in steam space:
 Material steel Thickness 1 1/32" Pitch of stays 19" x 17 1/2" How are stays secured 8 x 1 1/4" Working pressure by rules 210 Material of stays steel
 Area at smallest part 7.5 sq in Area supported by each stay 335 sq in Working pressure by rules 233 Material of Front plates at bottom steel
 Thickness 1 5/16" Material of Lower back plate steel Thickness 1 5/16" Greatest pitch of stays 13 3/4" x 9 9/16" Working pressure of plate by rules 216
 Diameter of tubes 3 1/2" Pitch of tubes 4 7/8" Material of tube plates steel Thickness: Front 1 5/16" x 3/4" Back 7/8" Mean pitch of stays 10"
 Pitch across wide water spaces 14" Working pressures by rules 215 Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 11" x 1 3/4" Length as per rule 36.218 Distance apart 11" Number and pitch of stays in each Three 8"
 Working pressure by rules 201 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

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 Valve Pressure to which each is adjusted

Is Easing Gear fitted

W1638-0238

IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:— *Two top end bolts & nuts, two bottom end bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of air, feed & help pump valves, six joint ring studs & nuts, one main & one donkey chest valve, two valves for donkey pump, one safety valve spring, 3 condenser tubes, one set of fire bars & a quantity of bolts & nuts & iron of various sizes.*

The foregoing is a correct description,

for *CHARLES D. HOLMES & CO. LTD.*

Manufacturer.

Dates of Survey while building { During progress of work in shops -- *1918: Jan 21. 25. 30. Feb 2. 4. 6. 11. 14. 18. 21. 27. Mar 1. 6. 7. 8. 11. 13. 16. 18. 20. 22. 25*
During erection on board vessel -- *28 Apr 9. 11. 15. 16. 18. 19. 24*
Total No. of visits *30*

Is the approved plan of main boiler forwarded herewith *dup already forwarded*
" " " donkey " " "

Dates of Examination of principal parts—Cylinders *14-2-18* Slides *27-2-18* Covers *18-3-18* Pistons *11-2-18* Rods *7-3-18*
Connecting rods *7-3-18* Crank shaft *11-3-18* Thrust shaft *16-3-18* Tunnel shafts *✓* Screw shaft *4-2-18* Propeller *4-2-18*
Stern tube *2-2-18* Steam pipes tested *11-4-18* Engine and boiler seatings *6-2-18* Engines holding down bolts *9-4-18*
Completion of pumping arrangements *18-4-18* Boilers fixed *16-4-18* Engines tried under steam *18-4-18*
Completion of fitting sea connections *6-2-18* Stern tube *6-2-18* Screw shaft and propeller *6-2-18*
Main boiler safety valves adjusted *15-4-18* Thickness of adjusting washers *7/32 & 1/32*
Material of Crank shaft *Steel* Identification Mark on Do. *2103FLS* Material of Thrust shaft *Steel* Identification Mark on Do. *2105FLS*
Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Steel* Identification Marks on Do. *2089FLS*
Material of Steam Pipes *solid drawn copper* Test pressure *400lbs*

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 *Thursley Class*

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 & the rules of this Society, the materials & workmanship are good. The Boiler & steam pipes have been tested as above & found sound & tight. The machinery has been properly fitted & secured on board the vessel & on completion was tested under full power for two hours, as required by the Admiralty & found satisfactory. The safety valves have been adjusted under steam & tested for accumulation which did not exceed 216 lbs. In my opinion the vessel is eligible for the record & L.M.C. 4-18*

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 4.18.

The amount of Entry Fee ... £ *2* : *0* :
Special ... £ *26* : *2* :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, *27.4 1918*
When received, *2.5 1918*

Committee's Minute

FRI. 3-MAY. 1918

Assigned

+ L.M.C. 4-18

6.5.18
MACHINERY CERTIFICATE
WRITTEN.

Frank A. Stanger
Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation