

REPORT ON MACHINERY

No. ³⁰³³² 30,322
THU. 17 JAN. 1918
See Hull ltr 1/1/18

Received at London Office

Date of writing Report 9-1-18 19 18 When handed in at Local Office 16-1-18 19 18 Port of Hull

No. in Survey held at Hull Date, First Survey 3-10-17 Last Survey 15-1-18 19 18
 Reg. Book. on the steel screw trawler "George Tonwick" (Number of Visits 22) Tons } Gross 324
 Net 132

Master Selby Built at Selby By whom built Cockrane Horsfield When built 1918-1

Engines made at Hull By whom made Chas. J. Holmes Horsfield (A7) when made 1918-1

Boilers made at Glasgow By whom made Lindsay Burnett (1640) when made 1918-1

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 117 Dia. of Screw shaft as per rule 7.9 Material of screw shaft Steel
as fitted 6 1/4

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 1/2"

Dia. of Tunnel shaft as per rule 7.04 Dia. of Crank shaft journals as per rule 7.39 Dia. of Crank pin 7 1/2" Size of Crank web 4 1/2" x 11" Dia. of thrust shaft under collars 7 1/2" Dia. of screw 9-7 1/2" Pitch of Screw 11'-0" No. of Blades 4 State whether moveable no Total surface 33 #

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 & 3 yecta Sizes of Pumps 6", 4 1/4" 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 yecta

No. of Bilge Injections one sizes 3 1/2" Connected to condensers, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 3" yecta

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 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 _____) Manufacturers of Steel _____

Total Heating Surface of Boilers 1440 # Is Forced Draft fitted no No. and Description of Boilers one single ended

Working Pressure 200 lb 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 2 Area of each valve 4.9 # Pressure to which they are adjusted 205 lb Are they fitted with easing gear yes
See Hull ltr 19.1.18

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 _____

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 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 _____ 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 Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

19.33

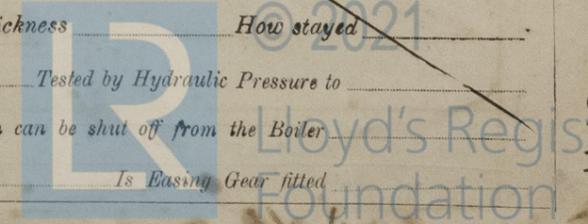
given as

Water Capacity Tons.

1918:

21.

old



W1341-0093

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 & bilge pump valves, one main & one donkey chest valve, two valves for donkey pump, 6 junk ring studs & nuts, one safety valve spring, 3 condenser tubes, one set of fire bars & a quantity of bolts & nuts of various sizes*

The foregoing is a correct description,

For CHARLES HOLMES & CO. LTD.

Charles Holmes

Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1917:— Oct 3, 4, 11, 17, 24, 29, Nov 2, 6, 7, 9, 12, 15, 19, 23 Dec 3, 21, 1918:— Jan 1, 2, 4, 5, 11, 15
During erection on board vessel ---
Total No. of visits *22*

Is the approved plan of main boiler forwarded herewith *dup ahead sent*

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders *24-10-17* Slides *9-11-17* Covers *7-11-17* Pistons *15-11-17* Rods *9-11-17*
Connecting rods *2-11-17* Crank shaft *15-11-17* Thrust shaft *19-11-17* Tunnel shafts ✓ Screw shaft *4-10-17* Propeller *4-10-17*
Stern tube *3-10-17* Steam pipes tested *27-12-17* Engine and boiler seatings *11-10-17* Engines holding down bolts *3-12-17*
Completion of pumping arrangements *5-1-18* Boilers fixed *2-1-18* Engines tried under steam *5-1-18*
Completion of fitting sea connections *11-10-17* Stern tube *11-10-17* Screw shaft and propeller *11-10-17*
Main boiler safety valves adjusted *1-1-18* Thickness of adjusting washers *7/16 & 3/16*

Material of Crank shaft *Iron* Identification Mark on Do. *2055FL* Material of Thrust shaft *steel* Identification Mark on Do. *2057FL*

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *steel* Identification Marks on Do. *1832 P1*

Material of Steam Pipes *solid drawn 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 ✓

Is this machinery duplicate of a previous case *yes* ✓ If so, state name of vessel *Fruity Blast* ✓

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 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 steam pipes have been tested as above & the safety valves adjusted under steam & tested for accumulation which did not exceed 2 1/2 lbs. In my opinion the vessel is eligible for the next + L.M.C. 1-18*

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 1.18.

J.M. J.W.D.
17/1/18

The amount of Entry Fee .. £ : : When applied for,
Special ... *20* : 10 : *16-1-18*
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : *4/2* : *31-1-18*

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

Committee's Minute

FRI. 18 JAN. 1918

Assigned

+ Jan 6. 18.

MACHINERY CERTIFICATE WRITTEN



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