

REPORT ON MACHINERY.

No. 18795

Port of Hull

Received at London 10 FEB. MAR 12 1907

No. in Survey held at Selby & Hull Date, first Survey Sep 25/06 Last Survey Feb 26th 1907
 Reg. Book. 1 Supp on the Screw Trawler "Ugadale" (Number of Visits 23)
 Master Built at Selby By whom built Cochrane & Sons Tons { Gross 255
 Engines made at Hull By whom made Charles D. Holmes & Co. when made 1907
 Boilers made at do By whom made do when made 1907
 Registered Horse Power Owners Union Steam Fishing Co Ltd Port belonging to Grimsby
 Nom. Horse Power as per Section 28 70 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 12½", 22", 35" Length of Stroke 24" Revs. per minute 110 Dia. of Screw shaft as per rule 7.39" 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
 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 36"
 Dia. of Tunnel shaft as per rule 6.66" Dia. of Crank shaft journals as per rule 6.99" Dia. of Crank pin 7½" Size of Crank webs 13½" x 43" Dia. of thrust shaft under
 collars 7½" Dia. of screw 8" x 7½" Pitch of Screw 10-6 to 11-6 No. of Blades 4 State whether moveable No Total surface 28 sq. ft.
 No. of Feed pumps 1 Diameter of ditto 2½" Stroke 24" Can one be overhauled while the other is at work ✓
 No. of Bilge pumps 1 Diameter of ditto 2½" Stroke 24" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines One Sizes of Pumps 2¼" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 2" dia. In Holds, &c. Three 2" dia.
 Ejector suction from all bilges & discharge on deck.
 No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size 2½" 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 Hold suction How are they protected Wood casing
 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 18.10.06 of Stern Tube 18.10.06 Screw shaft and Propeller 18.10.06
 Is the Screw Shaft Tunnel watertight none Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record (S) Manufacturers of Steel David Colville & Sons Ltd.
 Total Heating Surface of Boilers 1120 sq. ft. Forced Draft fitted No No. and Description of Boilers One S. E. Cyl. Mult.
 Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 30.1.07 No. of Certificate 1543
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 38 sq. ft. No. and Description of Safety Valves to
 each boiler Two spring Area of each valve 3.9" Pressure to which they are adjusted 205 lbs Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 6½" Mean dia. of boilers 13-0" Length 10-0" Material of shell plates Steel
 Thickness 1½" Range of tensile strength 28½-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams DR Lap
 long. seams DBS 5 Rivets Diameter of rivet holes in long. seams 1½" Pitch of rivets 7½" Lap of plates or width of butt straps 17½"
 Per centages of strength of longitudinal joint rivets 92.5 Working pressure of shell by rules 204 lbs Size of manhole in shell 16" x 12"
 Size of compensating ring 7" x 1½" No. and Description of Furnaces in each boiler Two Holmes Material Steel Outside diameter 3'-7"
 Length of plain part top ✓ Thickness of plates crown 23/32 Description of longitudinal joint Welded No. of strengthening rings ✓
 bottom ✓ Thickness 32 Description of longitudinal joint Welded No. of strengthening rings ✓
 Working pressure of furnace by the rules 209 Combustion chamber plates: Material Steel Thickness: Sides 23/32 Back 11/16 Top 23/32 Bottom 23/32
 Pitch of stays to ditto: Sides 9" x 9" Back 9¼" x 8½" Top 8¼" x 8½" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 205 lbs
 Material of stays Steel Diameter at smallest part 1½" Area supported by each stay 81" Working pressure by rules 230 End plates in steam space:
 Material Steel Thickness 1½" Pitch of stays 17½" x 17½" How are stays secured On x w Working pressure by rules 206 Material of stays Steel
 Diameter at smallest part 3" Area supported by each stay 306" Working pressure by rules 228 Material of Front plates at bottom Steel
 Thickness 15/16 Material of Lower back plate Steel Thickness 15/16 Greatest pitch of stays 14½" x 8½" Working pressure of plate by rules 213
 Diameter of tubes 3¼" Pitch of tubes 5" x 4¾" Material of tube plates Steel Thickness: Front 15/16 Back 29/32 Mean pitch of stays 9¾"
 Pitch across wide water spaces 15" Working pressures by rules 200 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 9¼" x 1¾" Length as per rule 2'-8½" Distance apart 8¾" Number, and pitch of stays in each 3 @ 8½"
 Working pressure by rules 211 lbs Superheater or Steam chest; how connected to boiler None 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
 holes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓
 If 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 ✓

W761-0090

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description				
Made at	By whom made	When made	Where fixed		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
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	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Stayed by			
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:—Two top + two bottom-end connecting rod bolts + nuts. Two main bearing bolts + nuts. One set of coupling bolts + nuts. One set of feed + bilge pump valves. Main + donkey feed check valves. Assorted bolts + nuts &c.

The foregoing is a correct description,
Charles D. Holmes Manufacturer.

Dates of Survey while building { During progress of work in shops - 1906: - Sep. 25. Oct. 3, 9, 16, 18, 24, 31. Nov. 7, 14. Dec. 4, 6, 17. 1907: Jan. 4, 15, 16, 22.
 { During erection on board vessel - Jan. 30. Feb. 5, 18, 20, 21, 23, 26.
 Total No. of visits 23.

Is the approved plan of main boiler forwarded herewith *Rpt 18783*

Dates of Examination of principal parts—Cylinders 4.1.07 Slides 5.2.07 Covers 5.2.07 Pistons 5.2.07 Rods 22.1.07
 Connecting rods 22.1.07 Crank shaft 5.2.07 Thrust shaft 5.2.07 Tunnel shafts ✓ Screw shaft 16.10.06 Propeller 16.10.06
 Stern tube 16.10.06 Steam pipes tested 21.2.07 Engine and boiler seatings 18.10.06 Engines holding down bolts 18.2.07
 Completion of pumping arrangements 23.2.07 Boilers fixed 20.2.07 Engines tried under steam 23.2.07
 Main boiler safety valves adjusted 23.2.07 Thickness of adjusting washers $F\frac{5}{16}$ A $\frac{1}{4}$ "
 Material of Crank shaft *Iron* Identification Mark on Do. 288 J.K. 5.2.07 Material of Thrust shaft *Iron* Identification Mark on Do. 288 J.K. 5.2.07
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. 288 J.K. 16.10.06
 Material of Steam Pipes *Solid drawn copper* Test pressure 400 lbs.

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

The Engines and Boiler of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of + L M C 2.07 in the Register Book.

It is submitted that
 this vessel is eligible for
 THE RECORD

H L M C 2.07

The amount of Entry Fee.. £ 1 : : : When applied for.
 Special £ 10 : 10 : : 5/31/07
 Donkey Boiler Fee £ : : :
 Travelling Expenses (if any) £ - : 8 : 2 28/3/07 24/07

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

Committee's Minute

Assigned

FRI. MAR 15 1907

+ L M C 2.07

MACHINERY CERTIFICATE
 WRITTEN.



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 Foundation

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)