

REPORT ON MACHINERY.

No. 17216

Port of Hull

Received at London Office. THUR. 12 OCT. 1905

No. in Survey held at Hull Date, first Survey April 25th Last Survey Sep. 30th 1905
 Reg. Book. 53 Saffron the Screw Trawler "Coquet" (Number of Visits 33) Tons Gross 176
Net 60
 Master Built at Hull By whom built Earlie S.B. + E. C. L^d When built 1905
 Engines made at Hull By whom made Earlie S.B. + E. C. L^d when made 1905
 Boilers made at do By whom made do when made 1905
 Registered Horse Power Owners Hull Steam Fishing + Ice C. L^d Port belonging to Hull
 Nom. Horse Power as per Section 28 46 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 10", 17", 28" Length of Stroke 22" Revs. per minute 112 Dia. of Screw shaft as per rule 6.6" Material of Iron
as fitted 7.4" 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 ✓ 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 2'-8 1/2"
 Dia. of Tunnel shaft as per rule 5.57" Dia. of Crank shaft journals as per rule 5.8" Dia. of Crank pin 6 1/4" Size of Crank webs 12 1/2 x 3 3/4" Dia. of thrust shaft under
as fitted 6" collars 6 1/4" Dia. of screw 8.9" Pitch of screw 8'-0" out, 9'-6" in No. of blades 4 State whether moveable No Total surface 24 sq. ft.
 No. of Feed pumps 1 Diameter of ditto 2 1/2" Stroke 11" Can one be overhauled while the other is at work ✓
 No. of Bilge pumps 1 Diameter of ditto 2 1/2" Stroke 11" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines 2 Sizes of Pumps 6"x3"x6", 5"x5"x5" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room One 2" dia. In Holds, &c. One 2" dia.
Ejector suction from Eng. bilge, hold, + ballast tanks, + discharge on deck.
 No. of bilge injections 1 sizes 3 1/2" Connected to condenser, or to circulating pump cond. Is a separate donkey suction fitted in Engine room & size 3" 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 ✓
 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 + tank 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
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock 30/9/05 Is the screw shaft tunnel watertight None
 Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.— (Letter for record (S)) Total Heating Surface of Boilers 750 sq. ft. Is 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 20.9.05 Can each boiler be worked separately ✓ Area of fire grate in each boiler 25 1/2 sq. ft. No. and Description of safety valves to
 each boiler Two direct spring Area of each valve 3.14" Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 7 1/2" Int. dia. of boilers 10'-6" Length 9'-3" Material of shell plates Steel
 Thickness 1" Range of tensile strength 28-32 Are they welded or flanged No Descrip. of riveting: cir. seams DR Lap long. seams DR S. 5 Rivets
 Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7 1/4" Lap of plates or width of butt straps 16"
 Per centages of strength of longitudinal joint rivets 91.3 Working pressure of shell by rules 207 lbs Size of manhole in shell 16" x 12"
plate 85.3
 Size of compensating ring 3'-4" x 2'-6" x 1" No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 35.53"
 Length of plain part top 5'-6 1/2" Thickness of plates crown 4.9" Description of longitudinal joint Welded No. of strengthening rings 2
 bottom 5'-2" bottom 6.4"
 Working pressure of furnace by the rules 229 lbs Combustion chamber plates: Material Steel Thickness: Sides 11/16" Back 5/8" Top 5/8" Bottom 1/16"
 Pitch of stays to ditto: Sides 8 1/4" x 7" Back 7 1/2" x 7 1/2" Top 8 1/4" x 7" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 230 lbs
 Material of stays Steel Diameter at smallest part 1 3/8" Area supported by each stay 50.7" Working pressure by rules 233 lbs End plates in steam space:
 Material Steel Thickness 15/16" Pitch of stays 14 1/4" x 14" How are stays secured 5 Nuts + W. Working pressure by rules 208 lbs Material of stays Steel
 Area at smallest part 5.18 Area supported by each stay 199.5" Working pressure by rules 259 lbs Material of Front plates at bottom Steel
 Thickness 15/16" Material of Lower back plate Steel Thickness 15/16" Greatest pitch of stays 15 1/2" x 12 1/2" Working pressure of plate by rules 210 lbs
 Diameter of tubes 3 1/4" Pitch of tubes 4 3/8" x 4 5/8" Material of tube plates Steel Thickness: Front 15/16" Back 7/8" Mean pitch of stays 9 3/4" x 9 1/4"
 Pitch across wide water spaces 13 3/4" Working pressures by rules 202 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 7 1/2" x 1 3/4" Length as per rule 2'-6 1/8" Distance apart 7" Number and pitch of Stays in each 2 @ 8 1/4"
 Working pressure by rules 212 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 2020 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 ✓

DONKEY BOILER— No. Description

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety 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 Per centage of strength of joint Rivets 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

Thickness of furnace crown plates Stayed by Working pressure of shell by rules

Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

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 + bridge pump valves. Main + donkey feed check valves. Assorted bolts + nuts etc.

The foregoing is a correct description,
F. J. Dalthorp Manufacturer.

SECRETARY 1905: - Apr 25, 28 May 3, 11, 18, 22, 25, 31 Jun 2, 7, 14, 15, 19.

Dates of Survey while building } During progress of work in shops - - }
 } During erection on board vessel - - }
 Total No. of visits 33

Is the approved plan of main boiler forwarded herewith *R/L 17036*
 " " " donkey " " " ✓

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 +LMC 9.05, in the Register Book.

It is submitted that this vessel is eligible for THE RECORD +LMC 9.05.

Paul
 12.10.05
R.S.
 12.10.05

Certificate (if required) to be sent to the Committee's Minute.

The amount of Entry Fee. £ 1 : : : When applied for,
 Special £ 8 : : : 7/11/05
 Donkey Boiler Fee £ - : : :
 Travelling Expenses (if any) £ - : : : 20/10/05

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

Committee's Minute FRI. 13 OCT 1905
 Assigned +LMC 9.05



MACHINERY CERTIFICATE WRITTEN.