

REPORT ON MACHINERY.

No. 9517

Port of Hull

Received at London Office THURS. 21 MAR 1895

No. in Survey held at Hull Date, first Survey Nov. 28/94 Last Survey Mar. 16th 1895
eg. Book. 45 on the MS. "MONARCH" (Number of Visits 14)

Master Wm. Douglas Built at Beverley By whom built Cochrane & Cooper When built 1895
Tons { Gross 130
Net 47

Engines made at Hull By whom made C.O. Holmes & Co. when made 1895
Boilers made at Hull By whom made do. when made 1895

Registered Horse Power 40 Owners Anchor Steam Fishing Co. Port belonging to Grimsby
Nom. Horse Power as per Section 28 41

ENGINES, &c.— Description of Engines Triple Exp. direct acting No. of Cylinders 3
Diameter of Cylinders 11 x 17 x 28 Length of Stroke 21 Revolutions per minute 118 Diameter of Screw shaft 5.4
as per rule 5.1 Diameter of Tunnel shaft 5.1/2 as fitted 5.1/2 Diameter of Crank shaft journals 5 3/4 Diameter of Crank pin 5 3/4 Size of Crank webs 4 1/8 x 5 7/8
Pitch of screw 10-16 9-4 1/2 Pitch of screw 7-10 No. of blades 4 State whether moveable no Total surface 214
No. of Feed pumps one Diameter of ditto 1 5/8 Stroke 21 Can one be overhauled while the other is at work ✓
No. of Bilge pumps one Diameter of ditto 2 Stroke 21 Can one be overhauled while the other is at work ✓
No. of Donkey Engines one Sizes of Pumps 2 1/2 x 5 double acting No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room 2 2-dia. In Holds, &c. one 2-dia.

No. of bilge injections 1 sizes 3" Connected to condenser, or to circulating pump no Is a separate donkey suction fitted in Engine room & size 2 1/2 dia.
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 yes
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 yes
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 held suction How are they protected wood cases
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 new Is the screw shaft tunnel watertight no tunnel
Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 663 sq
No. and Description of Boilers one cyl. mult. Working Pressure 160 Tested by hydraulic pressure to 320
Date of test 22-2-95 Can each boiler be worked separately ✓ Area of fire grate in each boiler 22 sq No. and Description of safety valves to
each boiler two spring loaded Area of each valve 3-4 sq Pressure to which they are adjusted 165 Are they fitted
with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork 7" Mean diameter of boilers 10'-0"
Length 9'-3" Material of shell plates steel Thickness 27/32 Description of riveting: circum. seams 6-R-rod long. seams 2-R-rod
Diameter of rivet holes in long. seams 15/16 Pitch of rivets 6 15/16 Lap of plates or width of butt straps 14 1/4"
Per centages of strength of longitudinal joint rivets 88 7/10 Working pressure of shell by rules 164 Size of manhole in shell 16 x 12"
plate 86 7/10 Size of compensating ring 6 x 27/32 No. and Description of Furnaces in each boiler 2 Holmes Material Steel Outside diameter 35"
Length of plain part top 14 1/2 Thickness of plates crown 1 1/2 Description of longitudinal joint welded No. of strengthening rings 4
bottom 14 1/2 bottom 1 1/2 Working pressure of furnace by the rules 160 Combustion chamber plates: Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 10/16
Pitch of stays to ditto: Sides 8" Back 8" Top 7 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 171
Material of stays 5/16 3/4 Diameter at smallest part 1 3/8 Area supported by each stay 8 x 7 1/2 Working pressure by rules 183 End plates in steam space:
Material Steel Thickness 7/8 Pitch of stays 14 3/4 How are stays secured nuts Working pressure by rules 167 Material of stays Steel
Diameter at smallest part 2-3 Area supported by each stay 14 3/4 Working pressure by rules 171 Material of Front plates at bottom Steel
Thickness 1 1/16 Material of Lower back plate Steel Thickness 1 1/16 Greatest pitch of stays 8" Working pressure of plate by rules 160
Diameter of tubes 3 1/4 Pitch of tubes 4 3/4 Material of tube plates Steel Thickness: Front 1 1/16 Back 13/16 Mean pitch of stays 9 1/2
Pitch across wide water spaces 13 1/4 Working pressures by rules 160 to 165 Girders to Chamber tops: Material Iron Depth and
thickness of girder at centre 7 x 7 1/8 Length as per rule 29 1/4 Distance apart 7 3/8 Number and pitch of Stays in each 3
Working pressure by rules 164 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
separately no Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet
holes no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no
If stiffened with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no
Working pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no

DONKEY BOILER—

Description

No broken boiler

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 _____
 Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____
 Description of riveting long seams _____ Diameter 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: *2 top end bolts nuts, 2 bottom end bolts nuts, 2 main bearing bolts nuts, 1 set coupling bolts, 1 set feed pump valves, 1 set bilge pump valves, 1 safety valve spring, 1 st. check valve.*
The vessel is provided with masts sails as a trawler.

The foregoing is a correct description,

Charles Holmes & Co. Manufacturer.

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

Good.

The machinery of this vessel has been constructed under special survey and placed on board in accordance with the Society's Rules, and is in my opinion eligible for the notification + L.M.C. 3-95 in the Register.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 3-95

The Surveyor be requested to give the date of the hydraulic test of the main boiler

*H.A.
21-3-95*

Certificate (if required) to be sent to *none*

The amount of Entry Fee..	£ 1 0	When applied for,	
Special	£ 8 0	29/3/95	
Donkey Boiler Fee .. .	£ ✓	When received,	
Travelling Expenses (if any)	£ ✓	28/3.95	Engy 29.3.95

Committee's Minute

FRIDAY 22 MAR 1895

Assigned

+ L.M.C. 3,95

MACHINERY CERTIFICATE WRITTEN

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

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