

WED. AUG 10 1896

10603

REPORT ON MACHINERY.

Port of Hull

Received at London Office

Date, first Survey July 21/93 Last Survey August 18 96

Survey held at

Book.

on the

Iron Steam Trawler "Monarch"

(Number of Visits 59)

Gross 163

Net 65

Built at Hull

By whom built Cook Weston & Gemmell When built 1896

made at Hull By whom made Bailey & Latham when made 1895-96

made at Hull By whom made Bailey & Latham when made 1895-96

Horse Power 45 Owners R Simpson & Co Ltd Port belonging to Hull

se Power as per Section 28 48

ES, &c.— Description of Engines Compound direct Acting No. of Cylinders two

of Cylinders 15" x 34" Length of Stroke 22" Revolutions per minute 104 Diameter of Screw shaft as per rule 5.77

of Tunnel shaft as fitted 5.77 Diameter of Crank shaft journals 6 1/2" Diameter of Crank pin 6 1/2" Size of Crank webs 9 1/2" x 4"

of screw 7:9" Pitch of screw 10:9:5 11:9" No. of blades 4 State whether movable No Total surface 23 sq ft

ed pumps one Diameter of ditto 2 3/8" Stroke 13" Can one be overhauled while the other is at work -

ge pumps one Diameter of ditto 2 3/8" Stroke 13" Can one be overhauled while the other is at work -

Donkey Engines one Sizes of Pumps 3 1/2" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps

Room One 2' In Holds, &c. one 2'

for suction in the Engine Bilge and discharge on deck

injections one size 3' Connected to condenser, or to circulating pump pumps Is a separate donkey suction fitted in Engine room & size as per rule

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

connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both

are 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

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

are carried through the bunkers suction to forward How are they protected hard cased

pes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times yes

ilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yes

the stern tube, propeller, screw shaft, and all connections examined in dry dock yes Is the screw shaft tunnel watertight in tunnel

with a watertight door - worked from -

RS, &c.— (Letter for record S) Total Heating Surface of Boilers 812

Description of Boilers One Cyl Shell Working Pressure 100 lb Tested by hydraulic pressure to 200 lb

st 17/5/95 Can each boiler be worked separately - Area of fire grate in each boiler 30.8 sq ft No. and Description of safety valves to

Two Spring loaded Area of each valve 5.9 sq" Pressure to which they are adjusted 105 lb Are they fitted

gear yes Smallest distance between boilers or uptakes and bunkers or woodwork 8" Mean diameter of boilers 11'0"

Material of shell plates Steel Thickness 1 1/16" Description of riveting: circum. seams all in lap long. seams all shop made

of rivet holes in long. seams 1" Pitch of rivets 1 1/2" Lap of plates or width of butt straps 10 7/8"

es of strength of longitudinal joint 75.7% Working pressure of shell by rules 114 lb Size of manhole in shell 15" x 18"

compensating ring 26" x 22" x 1 1/16" No. and Description of Furnaces in each boiler two Plain Material Steel Outside diameter 38"

plain part top 6:6" Thickness of plates crown 1/2" Description of longitudinal joint all shop No. of strengthening rings -

pressure of furnace by the rules 103 lb Combustion chamber plates: Material Steel Thickness: Sides 1/2" Back 1/2" Top 10/16" Bottom 1/2"

stays to ditto: Sides 8 3/4" Back 8 3/4" Top curved If stays are fitted with nuts or riveted heads nuts Working pressure by rules 100 lb

of stays Steel Diameter at smallest part 1 1/8" Area supported by each stay 8 3/4" Working pressure by rules 104 lb End plates in steam space:

Steel Thickness 1 1/16" Pitch of stays 1 1/2" How are stays secured all nuts Working pressure by rules 126 lb Material of stays Steel

at smallest part 1 3/4" Area supported by each stay 1 1/2" Working pressure by rules 102 lb Material of Front plates at bottom Steel

10/16" Material of Lower back plate Steel Thickness 10/16" Greatest pitch of stays 10" Working pressure of plate by rules 100 lb

of tubes 3 1/2" Pitch of tubes 5 1/4" Material of tube plates Steel Thickness: Front 12/16" Back 11/16" Mean pitch of stays 11"

ross wide water spaces 13 1/2" Working pressures by rules 100 lb Girders to Chamber tops: Material - Depth and

of girder at centre - Length as per rule - Distance apart - Number and pitch of Stays in each -

pressure by rules - Superheater or Steam chest; how connected to boiler - Can the superheater be shut off and the boiler worked

Diameter - Length - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivet

Pitch of rivets - Working pressure of shell by rules - Diameter of flue - Material of flue plates - Thickness -

ned with rings - Distance between rings - Working pressure by rules - End plates: Thickness - How stayed -

g pressure of end plates - Area of safety valves to superheater - Are they fitted with easing gear -

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DONKEY BOILER— Description *No donkey 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:— *One top end bolt. One bottom end bolt. One
Main Bearing bolt. One set coupling bolt. One set Dead pump valve
One set Bridge pump valve. One set check valve &c*

The vessel efficient with masts and sails as a power

The foregoing is a correct description,
Wm Bailey & Leatham H. Walker Manufacturer.

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

Dates of survey while building
During progress of work in shops— *1893: July 21. Sep 16. 18. Nov 22. 24. Dec 8. 11. 21. 28. 1894: Jan 4. 9. 13. 18. 23. 29. Feb 16. 28.*
During erection on board vessel— *Mar 9. Apr 5. 14. 23. May 17. June 9. July 6. 20. 26. Aug 1. 14. Sep 6. 11. 20. 26. Oct 4. 18. Nov 2. 7. 19. 27. Dec 3. 16. 17. 27.*
Total No. of visits *1895: Jan 15. 21. Feb 5. 22. Mar 14. 18. 25. Apr 1. May 17. 20. 1896: Mar 23. July 23. 25. 27. 28. 30.*
Aug 11 = 59.

*This Report is practically a copy of Hull Report No. 9415
being the same Engine & Boiler Baileys No 128 and now fitted on board
the Steam Trawler 'Monarch' the Builder request that they be dated*

*The Machinery and Boiler of this Steam Trawler have
been constructed under Special Survey and placed on board in
accordance with the Society's Rules. They are now in my opinion
in safe working condition and the case is respectfully submitted
In the Notification + L.M.C. 8.96. in the Register Book.*

*It is submitted that
this vessel is eligible for
THE RECORD + L.M.C. 8.96*

24. 8. 96

Certificate (if required) to be sent to *Hull*

The amount of Entry Fee.. £ : : When applied for,
Special £ : : ..18..
Donkey Boiler Fee £ *Just Paid* : : When received,
Travelling Expenses (if any) £ : : ..18..

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

Committee's Minute

TUES. AUG 25 1896

MACHINERY CERTIF.
WRITTEN.

Assigned

+ L.M.C. 8.96



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No. of
Name
Date
W B & L