

WED. AUG 10 1896

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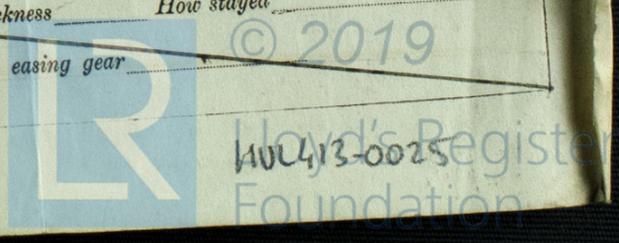
REPORT ON MACHINERY.

Port of Null Received at London Office _____
 Date, first Survey July 21/93 Last Survey August 18 96
 Survey held at Null (Number of Visits 59)
 on the Iron Steam Trawler "Monarch" Tonnage Gross 163 Net 65
 Built at Null By whom built Cook Weston & Co. Ltd When built 1896
 By whom made Bailey & Co. Ltd when made 1895-96
 Owners R Simpson & Co. Ltd Port belonging to Null
 Horse Power 45
 Power as per Section 28 48

ES, &c.— Description of Engines Compound direct acting No. of Cylinders two
 Length of Stroke 22" Revolutions per minute 104 Diameter of Screw shaft as per rule 5.77
 Diameter of Crank shaft journals 6 1/2" Diameter of Crank pin 6 1/2" Size of Crank webs as fitted 6 1/2"
 of Cylinders 15" x 34"
 of Tunnel shaft as per rule 5.44 Diameter of Crank shaft journals 6 1/2" Diameter of Crank pin 6 1/2" Size of Crank webs as fitted 6 1/2"
 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 -
 nkey 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'
 in The Engine Bilge and discharge on deck
 injections one size 3" Connected to condenser, or to circulating pump plumb 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
 nections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 ed 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
 ch 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
 s 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
 e stern tube, propeller, screw shaft, and all connections examined in dry dock now new Is the screw shaft tunnel watertight by tunnel
 with a watertight door - worked from -

ES, &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
 Can each boiler be worked separately yes 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 on lap long. seams all strap
 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"
 plate 75.5%
 ncompensating 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 strap No. of strengthening rings -
bottom 6:6" Thickness of plates bottom 1/2" Working 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"
 cross 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:— *The top end bolts. The bottom end bolts. The main bearing bolts. One set coupling bolts. One set Dead pump valves. One set Bridge pump valves. Set check valve &c*

The vessel efficient with masts and sails as a power

The foregoing is a correct description,
Wm Bailey & Leatham N. 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 14. 18. Nov 22. 24. Dec 8. 11. 21. 28. 1894: Jan 4. 9. 13. 18. 23. 29. Feb 16. 28. 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. 10. 17. 27.*
 During erection on board vessel —
 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 = 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 added

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 for the certification + 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 £ *for Paid* : : : : When received,
 Travelling Expenses (if any) £ : : 18

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

MACHINERY CERTIFIED WRITTEN

Committee's Minute

TUES. AUG 25 1896

Assigned

+ L.M.C. 8.96



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Lloyd's Register Foundation

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 Whether Foreign
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 Framework vessel
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