

REPORT ON MACHINERY.

No. 12346

Port of Glasgow

No. in Survey held at Glasgow
Reg. Book.

Date, first Survey 13th April Last Survey 13th July 1893

Received at London Office FRI 21 JUL 1893

on the Steam Trawler "Osprey"

(Number of Visits 20)

Master ✓ Built at Govan By whom built Mackie & Thomson Tons { Gross 141 Net 54 When built 1893

Engines made at Glasgow By whom made Muir & Houston when made 1893

Boilers made at Glasgow By whom made Muir & Houston when made 1893

Registered Horse Power 35 Owners Great Grimsby Ice Co Port belonging to Grimsby

Nom. Horse Power as per Section 28 33

ENGINES, &c.— Description of Engines Triple Expansion inverted direct acting No. of Cylinders Three
Diameter of Cylinders 10, 16 25 1/2 Length of Stroke 20 Revolutions per minute as per rule 4 1/2
Diameter of Tunnel shaft as per rule Diameter of Crank shaft journals 5 1/4 Diameter of Crank pin 5 1/4 Size of Crank webs 3 3/8, 9 3/4
Diameter of screw 7' 0" Pitch of screw 9' 0" No. of blades four State whether moveable fixed Total surface 16 sq. ft.
No. of Feed pumps one Diameter of ditto 1 3/4 Stroke 10 Can one be overhauled while the other is at work ✓
No. of Bilge pumps one Diameter of ditto 2 1/4 Stroke 10 Can one be overhauled while the other is at work ✓
No. of Donkey Engines one Sizes of Pumps 6 + 3 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Two, 2" in Engine room In Holds, &c. 2" from centre of Main Hold
No. of bilge injections one sizes 2 1/2 Connected to condenser, or to circulating pump no Is a separate donkey suction fitted in Engine room & size yes, 2"
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 none How are they protected ✓
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 before launching 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 5740
No. and Description of Boilers one Cylindrical return tubular Working Pressure 160 Tested by hydraulic pressure to 320
Date of test Can each boiler be worked separately Area of fire grate in each boiler 27 No. and Description of safety valves to each boiler two spring loaded Area of each valve 3' 14 Pressure to which they are adjusted 160 Are they fitted with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean diameter of boilers 108"
Length 8' 9" Material of shell plates Stal Thickness 27/32 Description of riveting: circum. seams Lap. 1 Rivet long. seams 8 Butt 4 Rivet
Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 7 1/2 Lap of plates or width of butt straps 17"
Per centages of strength of longitudinal joint: rivets 101 plate 85 Working pressure of shell by rules 165 Size of manhole in shell 12 x 16
Size of compensating ring 4" Nails No. and Description of Furnaces in each boiler two Material Stal Outside diameter 33
Length of plain part top 5 1/4 Thickness of plates crown 7/8 Description of longitudinal joint Welded No. of strengthening rings none
Working pressure of furnace by the rules 200 Combustion chamber plates: Material Stal Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 3/4
Pitch of stays to ditto: Sides 8 1/4 Back 8 1/4 Top 8 1/4 x 6 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 161
Material of stays Stal Diameter at smallest part 1 1/4 Area supported by each stay 8 1/4 x 8 1/4 Working pressure by rules 170 End plates in steam space: Material Stal Thickness 49/64 Pitch of stays 13 How are stays secured 8 Nuts & washers Working pressure by rules 165 Material of stays Stal
Diameter at smallest part 3 1/4 Area supported by each stay 13 x 13 Working pressure by rules 186 Material of Front plates at bottom Stal
Thickness 49/64 Material of Lower back plate Stal Thickness 9/16 Greatest pitch of stays 11 1/2 Working pressure of plate by rules 188
Diameter of tubes 3" Pitch of tubes 4 3/8 Material of tube plates Stal Thickness: Front 9/16 Back 9/16 Mean pitch of stays 8 5/8
Pitch across wide water spaces 13 Working pressures by rules 226 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 6 x 2 x 3/4 Length as per rule 46 Distance apart 1 1/2 Number and pitch of Stays in each two 8 1/2
Working pressure by rules 177 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 ✓

If not, state whether, and when, one will be sent? Is a Report also sent on the Hull of the ship? (L.R.P.H. Form No. 8. 4/2/92. Copyable Ink.)

Lloyd's Register Foundation

GLS1678-0190

12346 *gls*

DONKEY BOILER— 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 _____

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:— *As required by the rules*

The foregoing is a correct description,

Muir & Houston Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. *This vessels engines and boilers have been built under the conditions of special survey and securely fitted on board: They worked well under steam, and the materials and workmanship is good.*

It is submitted that this vessel is eligible for the record + L.M.C. 7. 93.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 7. 93—

Sub 21/7/93—

Certificate (if required) to be sent to

The amount of Entry Fee.. £ 1 : " **MACHINERY CERTIFICATE** When applied for, *24/4/93*

Special £ 8 : " : " *20/4/93*

Donkey Boiler Fee £ " : " : " *20/4/93*

Travelling Expenses (if any) £ " : " : " *20/4/93*

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

Committee's Minute

TUES. 25 JUL 1893

Assigned

+ L.M.C. 7. 93



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