

REPORT ON MACHINERY.

No. 56413

Port of *London*

Received at London Office *16/4/95*

No. in Survey held at *London* Date, first Survey *Feb'y 1895* Last Survey *5th April 1895*

Reg. Book.

275 on the *Iron Screw Ketch "Elsy"*

(Number of Visits *12*)

Master *E. Wales* Built at *Hull* By whom built *E. Wales*

Tons *116*
Gross
Net *65*
When built *1883-12*

Engines made at *Hull* By whom made *E. Wales* when made *1883*

Boilers made at *London* By whom made *S. Hodge & Sons* when made *1895*

Registered Horse Power *20* Owners *J. E. Crisp*

Port belonging to *Lowestoft*

Nom. Horse Power as per Section 28 *21.3*

90A1
11.94
S.5 Sp. N.2-92 *ALMC-9.92* *NB-9.92*

ENGINES, &c.—

Description of Engines *Original Engines*

No. of Cylinders *Two*

Diameter of Cylinders *11" & 22"* Length of Stroke *15"* Revolutions per minute
Diameter of Tunnel shaft *as per rule* Diameter of Crank shaft journals Diameter of Crank pin Size of Crank webs
Diameter of screw Pitch of screw No. of blades State whether moveable Total surface
No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
No. of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room In Holds, &c.

No. of bilge injections sizes Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

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

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the discharge pipes above or below the deep water line

Are they each fitted with a discharge valve always accessible on the plating of the vessel Are the blow off cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers How are they protected

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

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

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

Is it fitted with a watertight door worked from

BOILERS, &c.—

(Letter for record *S*)

Total Heating Surface of Boilers *358 Sq. ft*

No. and Description of Boilers *One cylindrical Multitubular* Working Pressure *90 lbs.* Tested by hydraulic pressure to *180 lbs.*

Date of test *8.3.95* Can each boiler be worked separately — Area of fire grate in each boiler *20 sq. ft* No. and Description of safety valves to

each boiler *Two Spring* Area of each valve *6.5 sq. in.* Pressure to which they are adjusted *83 lbs.* Are they fitted

with easing gear *yes* Smallest distance between boilers or uptakes and bunkers *8"* Mean diameter of boilers *8'-0"*

Length *7'-2"* Material of shell plates *Steel* Thickness *1/2"* Description of riveting: circum. seams *Lap. S. Riv* long. seams *S. Butt-S. Riv*

Diameter of rivet holes in long. seams *13/16"* Pitch of rivets *3 3/16"* Lap of plates or width of butt straps *8 1/2"*

Per centages of strength of longitudinal joint rivets *94.0* plate *75.47* Working pressure of shell by rules *94.3 lbs* Size of manhole in shell *16" x 12"*

Size of compensating ring *3 1/2" x 3/4"* No. and Description of Furnaces in each boiler *Two, Plain* Material *Steel* Outside diameter *30"*

Length of plain part *4'-6"* Thickness of plates *13/32"* Description of longitudinal joint *S. Butt-Sing Riv* No. of strengthening rings *none*

Working pressure of furnace by the rules *108* Combustion chamber plates: Material *Steel* Thickness: Sides *7/16"* Back *7/16"* Top *7/16"* Bottom *7/16"*

Pitch of stays to ditto: Sides *7 3/4" x 7"* Back *7 3/4" x 7 3/4"* Top *7" x 7"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *96 lbs*

Material of stays *Steel* Diameter of smallest part *1"* Area supported by each stay *60 sq. in.* Working pressure by rules *101 lbs* End plates in steam space:

Material *Steel* Thickness *5/8"* Pitch of stays *16" x 12"* How are stays secured *S. nuts* Working pressure by rules *134 lbs* Material of stays *Steel*

Diameter at smallest part *1 3/4"* Area supported by each stay *208 sq. in.* Working pressure by rules *99 lbs* Material of Front plates at bottom *Steel*

Thickness *5/8"* Material of Lower back plate *Steel* Thickness *5/8"* Greatest pitch of stays *12"* Working pressure of plate by rules *93 lbs*

Diameter of tubes *3"* Pitch of tubes *4"* Material of tube plates *Steel* Thickness: Front *5/8"* Back *5/8"* Mean pitch of stays *12"*

Pitch across wide water spaces *12"* Working pressures by rules *97 lbs* Girders to Chamber tops: Material *Steel* Depth and

thickness of girder at centre *4" x two 1/2"* length as per rule *12"* Distance apart *7"* Number and pitch of Stays in each *Two 7"*

Working pressure by rules *114 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 ☒ 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 ☒

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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 casing 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 foregoing is a correct description,

Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. This boiler has been built in

Special Survey the material and workmanship are sound and good, on
completion the boiler was tested by hydraulic pressure to 180 lb and found
light & sound at that pressure; the boiler has now been satisfactorily
mounted, placed and secured on board and tested under steam, and
renders the vessel eligible in my opinion to have the notation of
NB 4.95 (in red) and boiler pressure entered at 80 lb in the Register
Book

See Limit List

A New Main Boiler has now been fitted

It is submitted that
this vessel is eligible for

THE RECORD + NB 4.95 - B 34.95

A R R R
22.4.95

The vessel's name to be removed
from the Limit List for Main
Boilers.

A R R R
23.4.95

Certificate (if required) to be sent to

The amount of Entry Fee.. £ : : When applied for.
Special £ 2 : 15 : 0 22.4.95
Donkey Boiler Fee £ 2 : 15 : 0
Travelling Expenses (if any) £ : : When received.
24.4.95

Wm Morrison

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

Committee's Minute

TUES 23 APR 1895

Assigned

+ NB 4.95
B.S. 4.95



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Foundation