

REPORT ON BOILERS.

No. 51475

5-AUG-1942

Received at London Office 30 JAN 1942

Port of HULL.

27 JAN 1942

Survey held at HULL.

Date, First Survey 12.3.41

Last Survey 4.11.41

(Number of Visits)

Gross

601

Tons

Net

3.

on the STEAM TUG

JAUNTY.

SEABY.

By whom built Messrs Cochrane & Co Ltd

Yard No 1233.

When built 1941

11

made at HULL.

By whom made Messrs Chas. D. Holmes & Co

Engine No. 1591

When made 1941

4

made at HULL.

By whom made Messrs Chas. D. Holmes & Co

Boiler No. 1591

When made 1941

4

at Horse Power 222.

Owners

Port belonging to

TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Messrs K. Steel Company of Scotland.

(Letter for Record 5)

Heating Surface of Boilers 3550 sq. ft.

Is forced draught fitted Yes.

Coal or Oil fired Oil.

Description of Boilers One S.B.

Working Pressure 210 lb./sq. in.

Tested by hydraulic pressure to 365 lb./sq. in. Date of test 2-7-41 No. of Certificate 4106. Can each boiler be worked separately Yes.

No. and Description of safety valves to each boiler 2 spring loaded.

Pressure to which they are adjusted 210 lb./sq. in. Are they fitted with easing gear Yes.

For donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes.

Least distance between boilers or uptakes and bunkers or woodwork 2 feet.

Is oil fuel carried in the double bottom under boilers None.

Least distance between shell of boiler and tank top plating Yes.

Is the bottom of the boiler insulated

Least internal dia. of boilers 17'-0" Length 11'-6"

Shell plates: Material Steel.

Tensile strength 31-35 tons/sq. in.

Thickness 1 1/2". Are the shell plates welded or flanged No.

Description of riveting: circ. seams

end D.R. Lap.

seams T.R. - D.B.S.

Diameter of rivet holes in circ. seams 1 7/16"

long. seams 1 7/8"

Pitch of rivets 3 13/16"

10 1/16"

Percentage of strength of circ. end seams plate 62.4% rivets 43.1%

Percentage of strength of circ. intermediate seam plate rivets

Percentage of strength of longitudinal joint plate 85.7% rivets 86.7%

combined 87.3%

Thickness of butt straps outer 1 1/8" inner 1 1/4"

No. and Description of Furnaces in each Boiler 3 cf. Leighton Section.

Material Steel

Tensile strength 26/30 tons/sq. in.

Smallest outside diameter 4'-3 1/2"

Length of plain part top bottom

Thickness of plates crown 3 3/4" bottom 3 3/4"

Description of longitudinal joint Weld

Dimensions of stiffening rings on furnace or c.c. bottom None

End plates in steam space: Material Steel

Tensile strength 26/30 tons/sq. in. Thickness 1 3/16"

Pitch of stays 16" x 20 3/4"

How are stays secured Nuts & Washers inside and out.

End plates: Material front Steel back Steel.

Tensile strength 26/30 tons/sq. in.

Thickness 1 5/16" 2 9/32"

Can pitch of stay tubes in nests 9 9/16"

Pitch across wide water spaces 13 1/2" x 8 1/2"

Ends to combustion chamber tops: Material Steel

Tensile strength 29/33 tons/sq. in.

Depth and thickness of girder

Centre 9" x 7 1/8" x 2.

Length as per Rule 2'-8 3/32"

Distance apart 9 3/4"

No. and pitch of stays

Each 3 @ 7 3/4"

Combustion chamber plates: Material Steel.

Tensile strength 26/30 tons/sq. in.

Thickness: Sides 2 3/32"

Back 2 3/32"

Top 1 1/16"

Bottom 7 7/8"

Pitch of stays to ditto: Sides 8 1/2" x 10"

Back 9 1/2" x 8 7/8"

Top 7 3/4" x 9 3/4"

Are stays fitted with nuts or riveted over Nuts.

Front plate at bottom: Material Steel.

Tensile strength 26/30 tons/sq. in.

Thickness 1 5/16"

Lower back plate: Material Steel.

Tensile strength 26/30 tons/sq. in. Thickness 2 7/32"

Pitch of stays at wide water space 13 3/4" x 8 7/8"

Are stays fitted with nuts or riveted over Nuts.

Main stays: Material Steel.

Tensile strength 28/32 tons/sq. in.

Diameter At body of stay, or Over threads 3 1/8"

No. of threads per inch 8.

End stays: Material Steel.

Tensile strength 26/30 tons/sq. in.

Diameter At turned off part, or Over threads 1 3/4"

No. of threads per inch 9.

Are the stays drilled at the outer ends No

No. of threads per inch 9

Margin stays: Diameter { At turned off part, 1 7/8", 2", 2 1/8"
or
Over threads 1 7/8", 2", 2 1/8"

Tubes: Material L.W. Iron External diameter { Plain 3"
Stay 3"

Thickness { 8 W.G.
5/16", 3/8", 7/16" No. of threads per inch 10

Pitch of tubes 4 1/4" X 4 1/4"

Manhole compensation: Size of open Book

shell plate 16" X 12"

Section of compensating ring 13 7/16" X 1 15/32"

No. of rivets and diameter of rivet holes 16 @ 1 7/32"

Outer row rivet pitch at ends 10 1/16"

Depth of flange if manhole flanged 3 3/8"

Steam Dome: Material NONE

Tensile strength

Thickness of shell

Description of longitudinal joint

Diameter of rivet holes EE51

Pitch of rivets

Percentage of strength of joint { Plate
Rivets

Internal diameter

Thickness of crown

No. and diameter

stays

Inner radius of crown

How connected to shell

Size of doubling plate under dome

Diameter of rivet holes and of Se

of rivets in outer row in dome connection to shell

Type of Superheater

Manufacturers of { Tubes
Steel forgings
Steel castings

Number of elements

Material of tubes

Internal diameter and thickness of tubes

Material of headers

Tensile strength

Thickness

Can the superheater be shut off

the boiler be worked separately

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Area of each safety valve

Are the safety valves fitted with easing gear

Pressure to which the safety valves are adjusted

tubes

forgings and castings

and after assembly in place

Hydraulic test press

Are drain co

valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,
FOR CHARLES D. HOLMES & CO., LTD.

Dates { During progress of
of Survey work in shops - -
while { During erection on
building board vessel - -

See machinery ref

Are the approved plans of boiler and superheater forwarded herewith
(If not state date of approval.)

Total No. of visits

Is this Boiler a duplicate of a previous case Yes

If so, state Vessel's name and Report No. S. Tug. FRISKY

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This Boiler has been constructed under special survey in accordance with the approved plans and the Rules.

The Workmanship and Material are good and when subjected to a hydraulic test of 365 lbs / sq. it was found satisfactory in every respect.

Survey Fee £ : : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

J. F. ...

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRL 6 FEB 1942

Assigned

See Inl. 2.6. 51475



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Foundation