

REPORT ON BOILERS.

No. 97588.

13 SEP 1930

Received at London Office

Date of writing Report

19

When handed in at Local Office

11 SEP. 1930

Port of

Liverpool

No. in Survey held at

Queensferry

Date, First Survey

3/6/30

Last Survey

28/8/1930

(Number of Visits

7)

Tons

Gross

468 476

Net

189

Master

Built at

Queensferry

By whom built

Abdela Mitchell & Co.

Yard No.

464

When built

1930

Engines made at

Brimacombe

By whom made

Abdela Mitchell & Co.

Engine No.

1448

When made

Boilers made at

Wallsend

By whom made

North Eastern Marine Eng Co Ltd

Boiler No.

2482

When made

Nominal Horse Power

80

Owners

Ulham Shipping Co Ltd

Port belonging to

Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

John Spencer

(Letter for Record S)

Total Heating Surface of Boilers

1380 sq ft

Is forced draught fitted

no

Coal or Oil fired

Coal

No. and Description of Boilers

one cylindrical multitubular

Working Pressure

180 lb/sq in

Tested by hydraulic pressure to

320 lb

Date of test

5.3.30

No. of Certificate

9480

Can each boiler be worked separately

✓

Area of Firegrate in each Boiler

37 sq ft

No. and Description of safety valves to each boiler

Two spring loaded

Area of each set of valves per boiler

per Rule 90 sq in

as fitted 142 sq in

Pressure to which they are adjusted

180 lb/sq in

Are they fitted with easing gear

Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

✓

Smallest distance between boilers or uptakes and bunkers or woodwork

about 4'0"

Is oil fuel carried in the double bottom under boilers

no

Smallest distance between shell of boiler and tank top plating

✓

Is the bottom of the boiler insulated

no

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

long. seams

Diameter of rivet holes in

circ. seams

Pitch of rivets

Percentage of strength of circ. end seams

plate

rivets

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate

rivets

Working pressure of shell by Rules

Thickness of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top

bottom

Thickness of plates

crow

bottom

Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Working pressure by Rules

Tube plates: Material

front

back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

at centre

Length as per Rule

Distance apart

No. and pitch of stays

in each

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness

Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Diameter

At body of stay, or over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

At turned off part, or over threads

No. of threads per inch

Area supported by each stay

© 2020

Lloyd's Register Foundation

W999-0114

Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter { At turned off part, or Over threads } Working pressure by Rules

No. of threads per inch Area supported by each stay

Tubes: Material External diameter { Plain Stay } Thickness { No. of threads per inch

Pitch of tubes Working pressure by Rules Manhole compensation: Size of opening

shell plate Section of compensating ring No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends Depth of flange if manhole flanged Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets } No. and diameter

Internal diameter Working pressure by Rules Thickness of crown

stays Inner radius of crown Working pressure by Rules

How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch

of rivets in outer row in dome connection to shell

Type of Superheater Number of elements Material of tubes Manufacturers of { Tubes Steel castings } Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off and 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 Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure

tubes, castings and after assembly in place Are drain cocks or 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

The foregoing is a correct description,

Dates of Survey { During progress of work in shops - - - See Machy report. } Are the approved plans of boiler and superheater forwarded herewith Yes attached to report

while building { During erection on board vessel - - - } (If not state date of approval.)

Total No. of visits

Is this Boiler a duplicate of a previous case No If so, state Vessel's name and Report No. ✓

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

This boiler, constructed in 1920, and retested in 1930, see correspondence attached, has been satisfactorily fitted on board and examined under steam.

Survey Fee ... £ : : When applied for, 19

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

J. J. Milton.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 12 SEP. 1930

Assigned See accompanying Machy report.

TUE. 28 OCT 1930

