

REPORT ON BOILERS.

No. 19219

Date of writing Report

1.7.30

1930

When handed in at Local Office

25.7.30

1930

Received at London Office

30 JUL 1930

Port of

Greenock

No. in Reg. Book

Survey held at Greenock

Date, First Survey 18th November 1930

Last Survey 24.7.30

1930

on the

M/S "Athelcreeper"

(Number of Visits)

Gross 89.0.98

Net 52.0.91

Master

Built at

P. Glasgow

By whom built

W. Hamilton & Co

Yard No. 413

When built 1930

Engines made at

Greenock

By whom made

John L. Macdonald & Co

Engine No. 1755

When made 1930

Boilers made at

ditto

By whom made

ditto

Boiler No. 1755

When made 1930

Nominal Horse Power

Owners

United Motors Co Ltd

Port belonging to

Liverpool

MULTITUBULAR BOILERS - AUXILIARY,

Manufacturers of Steel

D. Bolwell Scottish Iron Works Ltd Glasgow

Total Heating Surface of Boilers

1823 sq ft

Is draught fitted

Yes

Oil fired

oil

No. and Description of Boilers

one single ended

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

15.4.30

No. of Certificate

1940

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

14.02 sq ft

No. and Description of safety valves to each boiler

Double spring

Area of each set of valves per boiler

per Rule

as fitted

14.13 sq ft

Pressure to which they are adjusted

185

Are they fitted with easing gear

Yes

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

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

14 1/2"

Is oil fuel carried in the double bottom under boilers

Yes

Smallest distance between shell of boiler and tank top plating

5-0"

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

13-4 7/8"

Length

11-0"

Shell plates: Material

S

Tensile strength

28.32

Thickness

1 1/8"

Are the shell plates welded or flanged

Yes

Description of riveting: circ. seams

end

DR

long. seams

TR O D B S

Diameter of rivet holes in

circ. seams

1 1/4"

long. seams

1 3/16"

Pitch of rivets

3.85"

8 3/8"

Percentage of strength of circ. end seams

plate

67.5

rivets

76.5

Percentage of strength of circ. intermediate seam

plate

85.82

rivets

Percentage of strength of longitudinal joint

plate

90.5

rivets

80.5

Working pressure of shell by Rules

184

Thickness of butt straps

outer

7/8"

No. and Description of Furnaces in each Boiler

3 Reighton

Material

S

Tensile strength

26.30

Smallest outside diameter

3.0 15/16"

Length of plain part

top

bottom

Thickness of plates

crown

bottom

15 3/32"

Description of longitudinal joint

weld

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

Working pressure of furnace by Rules

182

End plates in steam space: Material

S

Tensile strength

26.30

Thickness

1 3/32"

Pitch of stays

18 1/2" x 18 1/2"

How are stays secured

ON, gradual

Working pressure by Rules

182

Tube plates: Material

front

back

S

Tensile strength

26.30

Thickness

23 1/32"

Mean pitch of stay tubes in nests

9.48"

Pitch across wide water spaces

14"

Working pressure

front

back

182

Girders to combustion chamber tops: Material

S

Tensile strength

28.32

Depth and thickness of girder

at centre

9 1/2 x 7/8 (2)

Length as per Rule

57.62"

Distance apart

8 1/2"

No. and pitch of stays

in each

3 at 9"

Working pressure by Rules

204

Combustion chamber plates: Material

S

Tensile strength

26.30

Thickness: Sides

21 3/32"

Back

21 3/32"

Top

21 3/32"

Bottom

21 3/32"

Pitch of stays to ditto: Sides

9 x 9 1/4"

Back

8 1/2 x 9"

Top

9 x 8 1/2"

Are stays fitted with nuts or riveted over

Nuts

Working pressure by Rules

183

Front plate at bottom: Material

S

Tensile strength

26.30

Thickness

1"

Lower back plate: Material

S

Tensile strength

26.30

Thickness

25 3/32"

Pitch of stays at wide water space

13 3/4"

Are stays fitted with nuts or riveted over

Nuts

Working Pressure

183

Main stays: Material

S

Tensile strength

28.32

Diameter

At body of stay,

or

Over threads

No. of threads per inch

6

Area supported by each stay

342 sq in

Working pressure by Rules

196

Screw stays: Material

S

Tensile strength

26.30

Diameter

At turned off part,

or

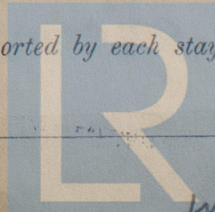
Over threads

No. of threads per inch

9

Area supported by each stay

46.25 sq in



Lloyd's Register

W1156-0047

Working pressure by Rules 198 Are the stays drilled at the outer ends 80 Margin stays: Diameter { At turned off part, 1 3/4" or Over threads }
No. of threads per inch 9 Area supported by each stay 100.62 sq. in. Working pressure by Rules 181
Tubes: Material Iron External diameter { Plain 3 Stay 3 Thickness 1/4 5/16 No. of threads per inch 9
Pitch of tubes 4 5/16 4 3/16 Working pressure by Rules 192 Manhole compensation: Size of opening in
shell plate 20 1/2 x 16 1/2 Section of compensating ring 2-11 1/2 x 13 1/6 No. of rivets and diameter of rivet holes 36 at 1 5/16
Outer row rivet pitch at ends 8 3/4 Depth of flange if manhole flanged 2 1/2 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
Internal diameter Working pressure by Rules Thickness of crown No. and diameter of
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 Manufacturers of { Tubes 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 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,
For John G. Kincaid & Co. Ltd.
Director Manufacturer.

Dates of Survey { During progress of work in shops - - } Are the approved plans of boiler forwarded herewith Yes
while building { During erection on board vessel - - } (If not state date of approval.)
SEE MACHINERY REPORT Total No. of visits 1

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. M/S 'Akhul Temp' at 7:19206

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
This boiler has been built under special survey in accordance with the approved plans & the workmanship & material are of good quality. It is now securely fitted on board.
This Report accompanies that of the Machinery

Survey Fee charged on Machinery Dept. When applied for, 19
Travelling Exp. When received, 19

W. Gordon-Mitchell
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 29 JUL 1930
Assigned See accompanying report