

21 OCT 1931

REPORT ON AIR RESERVOIRS BOILERS.

No. 10.530

Received at London Office

22 DEC 1930

Writing Report

19

When handed in at Local Office 20th Dec. 1930

Port of

Belfast

Survey held at

Belfast

Date, First Survey 8th October

Last Survey 18th Dec. 1930

(Number of Visits 9)

Gross 8375

Net 4948

on the

M V "CLIONA"

at

Glasgow

By whom built

Harland & Wolff Ltd

Yard No. 908G

When built 1931

es made at

Glasgow

By whom made

Ditto

Engine No. 908

When made 1931

es made at

Belfast

By whom made

Harland & Wolff Ltd

Boiler No. 908G

When made 1930

rs Anglo Saxon Petroleum Coy Ltd

Port belonging to

London

STANDARD DONKEY BOILER.

at Belfast

By whom made

Harland & Wolff Ltd

Boiler No. 908G

When made 1930

Where fixed

Manufacturers of Steel

St. John's Steel Co. Ltd

CAPACITY

350 CUBIC FEET EACH

Is forced draught fitted

Coal or Oil fired

Description of Boilers

4 CYLINDRICAL BUILT STEEL

Working pressure 356 LBS. S. Q.

hydraulic pressure to

Two 712 LBS. S. Q.

4th Nov. 1930

Name of Certificate

Firegrate in each Boiler

No. and Description of safety valves to each boiler

each set of valves per boiler

per rule
as fitted

Pressure to which they are adjusted

Are they fitted with easing gear

other steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

work

Is oil fuel carried in the double bottom under boiler

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

Largest internal dia. of boiler

5' 10 5/16"

LENGTH
Height 14' 3"

Material

STEEL

Tensile strength

28-32 TONS S. Q.

Thickness

1"

shell plates welded or flanged

No

Description of riveting: circ. seams

DOUBLE

long. seams

TREBLE

rivet holes in

circ. seams 5/16"
long. seams 1 1/16"

Pitch of rivets

3.29"
7/16"

Percentage of strength of circ. seams

plate 60.1
rivets 67.5

of Longitudinal joint

plate 85.4
rivets 33.7
combined 89.6

pressure of shell by rules

371 LBS. S. Q.

Thickness of butt straps

outer 25"
inner 23"

rown: Whether complete hemisphere, dished partial spherical, or flat

YES

Material

STEEL

strength

26-30 TONS S. Q.

Thickness

17 1/16" & 19 1/16"
15 1/32" & 19 1/32"

Radius

48"

Working pressure by rules

360 LBS. S. Q.

tion of Furnace: Plain, spherical, or dished crown

See Ref. Letter 2.1.31

Material

Tensile strength

ess

External diameter

top
bottom

Length as per rule

Working pressure by rules

of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

er of stays over thread

Radius of spherical or dished furnace crown

Working pressure by rule

ess of Ogee Ring

Diameter as per rule

D
d

Working pressure by rule

stion Chamber: Material

Tensile strength

Thickness of top plate

if dished

Working pressure by rule

Thickness of back plate

Diameter if circular

as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

er of stays over thread

Working pressure of back plate by rules

Plates: Material

front
back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

prising shell, Dia. as per rule

front
back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay
plain

BACK

stay
plain

ch alternate tube in outer vertical rows a stay tube

Working pressure by rules

front
back

lers to combustion chamber tops: Material

Tensile strength

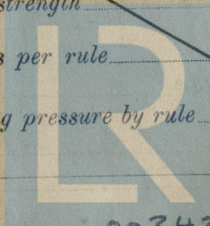
th and thickness of girder at centre

Length as per rule

tance apart

No. and pitch of stays in each

Working pressure by rule



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003429-003433-003440

Crown 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 _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____

Tubes: Material _____ External diameter { plain _____ stay _____ Thickness { _____

No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____

Manhole Compensation: Size of opening in 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 _____

Uptake: External diameter _____ Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with _____

The foregoing is a correct description,

Manufacturers _____

Dates of Survey { During progress of work in shops - - 1932 Oct 8, 14, 29 Nov. 4, 20, 24, 28 Dec 6, 18. Is the approved plan of boiler forwarded herewith (If not state date of approval.)

while building { During erection on board vessel - - Total No. of visits 9

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

These air reservoirs were constructed under special survey. The materials and the workmanship are sound and good. In accordance with the specification two of the reservoirs were tested by hydraulic pressure to 712 lbs. The other two were tested to 585 lbs. with the approval of the owners. They are being despatched to Glasgow.

NO. 38
LLOYD'S TEST
712 LBS.
W.P. 356 LBS.
R.L.A. 4.11.30

NO. 38
LLOYD'S TEST
585 LBS.
W.P. 356 LBS.
R.L.A. 18.12.30

Survey Fee ... £ 16 : 16 : } When applied for, 20th Dec. 1930

Travelling Expenses (if any) £ : : } When received, 22nd Jan 1931 (Lan. Ltd)

R. Lee James

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 OCT 1931

Assigned See Glasgow Report No. 51840.

Lloyd's Register Foundation

Rpt. 13.

REF

Date of writing

No. in Su
Reg. Book.

39711 on

Built at

Owners THE

Electric Lig

Is the Vessel

System of

Pressure of s

Direct or Al

If alternating

Has the Auto

Generators,

are they over

Where more

series with ea

Are all termi

short circui

Position of

is the ventile

if situated

are their us

Earthing,

their respect

Main Swi

a fuse on e

Switchbo

are they m

woodwork

are they

permanent

with mica

and is the

bars

Main S

CIRCU

OVER

Instru

Earth

SER

Switch

Joint