

REPORT ON BOILERS.

No. 8467.

Date of writing Report

5th Jan 1921

When handed in at Local Office

191

Port of

Received at London Office

THU 4 JAN 1921

No. in Survey held at

Belfast

Date, First Survey

July 29,

Last Survey

Dec 8

1920.

Reg. Book.

on the Air Reservoirs for Harland & Wolff Ltd 604 D

(Number of Visits 11)

Gross 7424

Tons Net 4494

Master Built at Dumbarton By whom built A. Mcmillan & Sons

When built 1921

Engines made at

Glasgow

By whom made

Harland & Wolff Ltd

When made 192

Boilers made at

Belfast

By whom made

Harland & Wolff Ltd

When made 1920

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

J. Calville & Sons Ltd

Letter for record

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of

2, cylindrical

Working Pressure 356 lbs

Tested by hydraulic pressure to 712 lbs

Date of test 22-12-20

of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

Safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

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

Mean dia. 6'-0"

Length 18'-10"

Material of shell plates

Steel Thickness 1/32"

Range of tensile strength 28-32 tons

the shell plates welded or flanged No

Descrip. of riveting: cir. seams

Lap double long. seams

W. Butt double

Diameter of rivet holes in long. seams 1 1/2"

Pitch of rivets 8 3/8"

of plates or width of butt straps

1 1/2"

Per centages of strength of longitudinal joint

rivets 92.0

Working pressure of shell by

Size of manhole in

16" x 12"

Size of compensating ring

End flanged

No. and Description of Furnaces in each

Boiler

Material

Outside diameter

Length of plain part

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at

Smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space: Material

Steel Thickness 1/32" / 1/32"

Pitch of stays

How are stays secured

440 Radius

Working pressure by rules as approved

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Over back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide

Over spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

Boiler at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

Material

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

Fitted 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

The foregoing is a correct description,

For HARLAND & WOLFF Ltd.

Manufacturer.

J. Calville & Sons Ltd

During progress of 1920
work in shops - July 29, Aug 16, 24, Oct 12, 19, 25, Nov 15,
During erection on 24, Dec 4, 7, 8,
board vessel - - -

Is the approved plan of boiler forwarded herewith

Total No. of visits 11

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

These air reservoirs for Diesel Engines have been built under Special Licence. The materials and the workmanship are good description. They have been forwarded to Glasgow for the firm work.

Survey Fee

£8.8.0

When applied for,

20/5/21

Travelling Expenses (if any) £

When received,

25/6/21

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

Committee's Minute

GLASGOW

Signed

Secy. R. H. 41636

10 JAN 1922



Lloyd's Register Foundation

W500-0074