

REPORT ON BOILERS.

No. 37801.

WED. 12 JUN. 1918

Received at London Office

Date of writing Report

191

When handed in at Local Office

191

Port of Glasgow

Date, First Survey 8. 3. 18

Last Survey

1 / 5 / 1918.

No. in
Reg. Book.

Survey held at Clydebank.

(Number of Visits 7.)

Gross

Tons

Net

on the Standard Boilers S.O. 74/17 K.L.M. S.S. "War Lemur"

Master

Built at

By whom built

Harland & Wolff Ltd

When built 1918

Engines made at

Belfast

By whom made

When made

Boilers made at

Clydebank

By whom made John Brown & Co. Ltd

When made 1918

Registered Horse Power

Owner The Shipping Controller

Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D Colville Sons

(Letter for record 5)

Total Heating Surface of Boilers 7668 sq ft

Is forced draft fitted yes

No. and Description of

Boilers Three single ended

Working Pressure 180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 15.4.18

No. of Certificate 14222

Can each boiler be worked separately yes

Area of fire grate in each boiler 63.3 sq ft

No. and Description of

safety valves to each boiler 2 - Direct Spring

Area of each valve 9.62 sq in

Pressure to which they are adjusted 185 lbs

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 18 in

Mean dia. of boilers 15.6 in

Length 11.6 in

Material of shell plates steel

Thickness 1 1/4 in

Range of tensile strength 28/32 tons

Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams DR lap

long. seams DBS. TR

Diameter of rivet holes in long. seams 1 5/16 in

Pitch of rivets 9 3/8 in

Lap of plates or width of butt straps 19 1/2 in

Per centages of strength of longitudinal joint

rivets 88.3

Working pressure of shell by

rules 182 lbs

Size of manhole in shell end 16" x 12"

Size of compensating ring end flanged in

No. and Description of Furnaces in each

boiler 3 Beighton

Material steel

Outside diameter 50 3/8 in

Length of plain part top

Thickness of plates crown 19 in

Description of longitudinal joint weld

No. of strengthening rings

Working pressure of furnace by the rules 18 1/2

Combustion chamber

plates: Material steel

Thickness: Sides 2 3/32 in

Back 1 1/8 in

Top 2 3/32 in

Bottom 2 3/32 in

Pitch of stays to ditto: Sides 10 5/8 x 9 1/4 in

Back 10 1/4 x 8 3/4 in

Top 10 5/8 x 9 1/4 in

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 180

Material of stays steel

Diameter at

smallest part 2 3/8 in

Area supported by each stay 99 in

Working pressure by rules 216

End plates in steam space: Material steel

Thickness 1 1/2 in

Pitch of stays 2 1/2 x 20 7/8 in

How are stays secured DNRW

Working pressure by rules 189

Material of stays steel

Diameter at smallest part 8 1/2 in

Area supported by each stay 454 in

Working pressure by rules 189

Material of Front plates at bottom steel

Thickness 3 1/32 in

Material of

Lower back plate steel

Thickness 2 7/32 in

Greatest pitch of stays 13 5/8 in

Working pressure of plate by rules 205

Diameter of tubes 2 3/4 in

Pitch of tubes 4 x 3 7/8 in

Material of tube plates steel

Thickness: Front 3 1/32 in

Back 3/4 in

Mean pitch of stays 9 1/8 in

Pitch across wide

water spaces 13 5/8 in

Working pressures by rules 182

Girders to Chamber tops: Material steel

Depth and thickness of

girder at centre 2 plates 10 x 7/8 in

Length as per rule 36 in

Distance apart 10 5/8 in

Number and pitch of Stays in each 3 of 9 1/4 in

Can the superheater be shut off and the boiler worked

Working pressure by rules 182

Superheater or Steam chest: how connected to boiler none

Diameter

Description of longitudinal joint

Diam. of rivet

separately

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened 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

John Brown & Company, Limited.

The foregoing is a correct description,

Survey request form

No. 2135 attached

Is the approved plan of boiler forwarded herewith Forwarded with previous sets.

Total No. of visits 7.

Dates of Survey

During progress of work in shops 1918 Mar. 8. 13. Apr. 2. 15. 19. 23. May 1.

while building

During erection on board vessel

GENERAL REMARKS

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

These boilers have been constructed

under special survey in accordance with the rules and approved plans and have been tested by hydraulic pressure to 360 lbs. Materials & workmanship are good.

These boilers have been forwarded to Messrs Harland & Wolff Ltd, Belfast, to be fitted on board.

Survey Fee

When applied for

191

Travelling Expenses (if any)

When received

191

Committee's Minute

Assigned

See Belfast rpt. No. 7969

Harry Clarke

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 14 JUN. 1918

Lloyd's Register

BEL72-0113