

REPORT ON RECEIVERS BOILERS.

WFD. 9 JAN. 1924

No. 8956.

Date of writing Report

191

When handed in at Local Office

191

Port of

Belfast.

No. in Survey held at

Belfast

Date, First Survey

May 14th

Last Survey

21 8-23

Reg. Book.

on the

Manoeuvring Air Receivers for M.S. 6109. "GUJARAT"

(Number of Visits 10)

Gross

Tons

Net

Master

Built at

Glasgow

By whom built

Harland & Wolff Ltd.

When built

1923

Engines made at

Glasgow

By whom made

Harland & Wolff Ltd

When made

1923

Boilers made at

By whom made

When made

Registered Horse Power

(Owners Messrs Andrew Weir & Co. Ltd.)

Port belonging to

~~MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY.~~

Manufacturers of Steel David Colville & Sons Ltd.

(Letter for record

) Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of

Boilers Receivers

Two

Working Pressure

356 lbs

Tested by hydraulic pressure to

585 lbs

Date of test

13-8-23

No. of Certificate

826

Can each boiler be worked separately

✓

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

Spring loaded 2

Area of each valve

7 sq

Pressure to which they are adjusted

360 lbs/sq

Are they fitted with easing gear

No

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. of

Receivers

6'-0 3/8"

Length

21'-0 13/16"

Material of shell plates

Steel

Thickness

1 3/8"

Range of tensile strength

27-32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

D.R.

long. seams T.R. D.B.S.

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

4 13/16"

Top of plates or width of butt straps

16 5/8"

Per centages of strength of longitudinal joint

rivets

98.8

Working pressure of shell by

rules

360 lbs

Size of manhole in

end

16' x 12'

Size of compensating ring

dished

No. and Description of Furnaces in each

boiler

✓

Material

✓

Outside diameter

✓

Length of plain part

top

✓

Thickness of plates

crown

✓

bottom

✓

Description of longitudinal joint

✓

No. of strengthening rings

✓

Working pressure of furnace by the rules

✓

Combustion chamber

plates: Material

✓

Thickness: Sides

✓

Back

✓

Top

✓

Bottom

✓

Pitch of stays to ditto: Sides

✓

Back

✓

Top

✓ If stays are fitted with nuts or riveted heads

✓

Working pressure by rules

✓

Material of stays

✓

Area at

smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space: Material

Steel

Thickness

1 3/32 + 1 1/32"

Pitch of stays

None

Radius of ends

4'-0"

Working pressure by rules

35 1/5 lbs

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Lower 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

water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

girder at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

MARKS	
NO 826	
LLOYD'S TEST	
585 LBS	
WP 356 LBS	
H.P.S. 13-8-23	

The foregoing is a correct description,

FOR HARLAND & WOLFF LTD.

Manufacturer.

Dates of Survey

During progress of work in shops - -

while building

During erection on board vessel - - -

Is the approved plan of Receivers forwarded herewith will be forwarded with last receivers (6569).

Total No. of visits

GENERAL REMARKS

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

These receivers have been built under special survey, materials & workmanship good, hydraulic tests satisfactory. They are being shipped to Glasgow & be fitted in the vessel. These receivers have now been fitted on board in an efficient manner and safety valves adjusted to 360 lb/sq

Survey Fee ... £8-8-0

When applied for, 25. 8. 1923

Travelling Expenses (if any) £

When received, 9. 10. 1923

Committee's Minute

Assigned

See Rpt. No. 43244

GLASGOW - 8 JAN 1924

William Butler & Co. Crinick

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register

Foundation

002790-002791-0020