

REPORT ON BOILERS.

No. 77925

TUE. JUN. 3 1924

2 JUN 1924

Received at London Office

of writing Report

19

When handed in at Local Office

Port of

NEWCASTLE-ON-TYNE

Date, First Survey Feb 13

Last Survey May 30 1924

(Number of Visits 20)

Gross

Tons

Net

When built 1921

When made 1919

When made 1924

Port belonging to

Survey held at Helburn-on-Tyne

on the Main Boiler No 1033 / FOREMOST 26

Built at Halkbommel By whom built J. Meyer & Schepers Myn

Lines made at South Shields By whom made G. T. Galey & Co Ltd

Boilers made at Helburn-on-Tyne By whom made Palmer & Co Ltd

Registered Horse Power

Owners

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Enter for record

S.

Total Heating Surface of Boilers

1984 sq ft

Is forced draft fitted

Boilers One each month

Working Pressure

185 lb

Tested by hydraulic pressure to

328 lb

Date of test 23/5/24

No. of Certificate

9825

Can each boiler be worked separately

Area of fire grate in each boiler

45 sq ft

No. and Description of

Valves to each boiler

2 spring loaded

Area of each valve

3" 3 dia

Pressure to which they are adjusted

130 lb

They fitted with easing gear

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

Least distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

14'-0"

Length

11'-6"

Material of shell plates

Steel

Thickness

1 3/8"

Range of tensile strength

28/32 Tons

Are the shell plates welded or flanged

No

Crp. of riveting: cir. seams

DR. L.

long. seams

TR. D. B. S.

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 3/4"

of plates or width of butt straps

1'-6 1/2"

Per centages of strength of longitudinal joint

91%

Working pressure of shell by

188

Size of manhole in shell

16" x 12"

Size of compensating ring

27" x 31" x 1 1/2"

No. and Description of Furnaces in each

2 Reigton

Material

Steel

Outside diameter

4'-4 1/4"

Length of plain part

top

Thickness of plates

crown

3'-5"

Description of longitudinal joint

Welded

No. of strengthening rings

1

Working pressure of furnace by the rules

185.2

Combustion chamber

Material

Steel

Thickness: Sides

1/2"

Back

1/2"

Top

1/2"

Bottom

1"

Pitch of stays to ditto: Sides

8 1/2" x 10"

Back

8 1/2" x 10"

If stays are fitted with nuts or riveted heads

None

Working pressure by rules

192

Material of stays

Steel

Area at

test part

1 3/4"

Area supported by each stay

80.5

Working pressure by rules

213

End plates in steam space: Material

Steel

Thickness

1 1/8"

of stays

20 x 20

How are stays secured

DR. W.

Working pressure by rules

196

Material of stays

Steel

Area at smallest part

3 1/2"

supported by each stay

400

Working pressure by rules

200

Material of Front plates at bottom

Steel

Thickness

3/2"

Material of

back plate

Steel

Thickness

3/2"

Greatest pitch of stays

11" x 12"

Working pressure of plate by rules

218

Diameter of tubes

3 1/2"

of tubes

4 3/4" x 4 3/4"

Material of tube plates

Steel

Thickness: Front

3/2"

Back

3/4"

Mean pitch of stays

11.8

Pitch across wide

spaces

14"

Working pressures by rules

186

Girders to Chamber tops: Material

Steel

Depth and thickness of

at centre

9 1/2" x 15"

Length as per rule

35"

Distance apart

10"

Number and pitch of Stays in each

32 8 1/4"

Working pressure by rules

187

Steam dome: description of joint to shell

1

% of strength of joint

1

Thickness of shell plates

1 1/8"

Material

Steel

Description of longitudinal joint

1

Diam. of rivet holes

1 1/4"

of rivets

1

Working pressure of shell by rules

1

Crown plates

1

Thickness

1

How stayed

1

Superheater. Type

1

Date of Approval of Plan

1

Tested by Hydraulic Pressure to

1

of Test

1

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

1

Pressure of Safety Valve

1

Pressure to which each is adjusted

1

Is Easing Gear fitted

1

Vertical Donkey Boiler—

No.

Description

Manufacturers of steel

By whom made

When made

Where fixed

Working pressure

at

1

by hydraulic pressure to

Date of test

No. of Certificate

Fire grate area

Description of safety valves

1

safety valves

Area of each

Pressure to which they are adjusted

1

If fitted with easing gear

1

If steam from main boilers can

1

the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

1

Descrip. of riveting long. seams

1

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

1

plating

Per centage of strength of joint

Rivets

Plates

Working pressure of shell by rules

1

Thickness of shell crown plates

1

of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

1

ss of furnace plates

Description of joint

Working pressure of furnace by rules

1

Thickness of furnace crown

1

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

1

ss of water tubes

1

The foregoing is a correct description,

1

Manufacturer.

1

During progress of

work in shops

Feb 13, 22, 25, 27, Mar 4, 7, 12, Apr 18, 24, May 1, 5, 6, 13, 14, 15, 16, 19, 26, 28, 30

During erection on

board vessel

1

Total No. of visits

1

Is the approved plan of main boiler forwarded herewith

1

" " " donkey " " " "

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

GENERAL REMARKS

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

This boiler has been built under special survey & the materials & workmanship are good. At completion the boiler was tested by hydraulic pressure to 325 lbs. & found sound & tight. The boiler is stated to be intended for shipment abroad ordered by Messrs The James Dudgeon & Co. of London to 3 Little George St. Westminster.

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £	13-4-0	When applied for.
Special £	:	2 JUN 1924
Donkey Boiler Fee £	:	When received.
Travelling Expenses (if any) £	:	26.4.24

Committee's Minute

Assigned

not for classing
Committee

Shawbottle
Engineer Surveyor to Lloyd's Register of Shipping
JUN 7 APR 1925

See Rob. 26 14159 a
Lloyd's Register
Foundation