

Rpt. 5.

NEWCASTLE-ON-TYNE F.E. Report 78021.
REPORT ON BOILERS.

No. 77867

SAT 17 MAY 1924

Date of writing Report

19

When handed in at Local Office

16/5/24 Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

NEWCASTLE-ON-TYNE

Date, First Survey 27 Nov. 1923 Last Survey

15/5/24

Reg. Book.

on the

Main Boiler No 1032 for yard No 36

S.S. "KHUZISTAN"

(Number of Visits 29)

Tons

Gross

Net

Master

Built at

Amble

By whom built

Amble P.B. Co. Ltd

When built

1924

Engines made at

Coatbridge

By whom made

B. Beadmore & Co.

When made

1924

Boilers made at

Dulham

By whom made

Palmer & Co. Ltd

When made

1924

Registered Horse Power

Owners

British Tanker Co. Ltd.

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

J. H. & Co. Ltd, Newcastle

(Letter for record

S.)

Total Heating Surface of Boilers

1850 sq ft

Is forced draft fitted

No.

No. and Description of

Boilers

One 8 ft Smith

Working Pressure

180 lb/sq in

Tested by hydraulic pressure to

320 lb/sq in

Date of test

10/4/24

No. of Certificate

9816

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

2 spring loaded

Area of each valve

2 1/2" DIA

Pressure to which they are adjusted

185

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

8'-3"

Mean dia. of boilers

14'-0"

Length

10'-6"

Material of shell plates

Steel

Thickness

1 1/2"

Range of tensile strength

28/32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

DRL

long. seams

TRJBS

Diameter of rivet holes in long. seams

1 3/8"

Pitch of rivets

8 1/2"

Lap of plates or width of butt straps

1'-6"

Per centages of strength of longitudinal joint

rivets 86.7%

Working pressure of shell by

rules

184

Size of manhole in shell

16" x 12"

Size of compensating ring

7 1/2" x 1 1/2"

No. and Description of Furnaces in each

boiler

3 Brightons

Material

Steel

Outside diameter

3'-7"

Length of plain part

top

bottom

Thickness of plates

crown

bottom

3 1/2"

Description of longitudinal joint

Welded

No. of strengthening rings

Working pressure of furnace by the rules

192

Combustion chamber

plates: Material

Steel

Thickness: Sides

3 1/2"

Back

1 3/8"

Top

3 1/2"

Bottom

1"

Pitch of stays to ditto: Sides

9" x 9"

Back

9" x 9"

Top

9" x 9"

If stays are fitted with nuts or riveted heads

R. Hall

Working pressure by rules

185

Material of stays

Steel

Area at

smallest part

1.8"

Area supported by each stay

80"

Working pressure by rules

180.3

End plates in steam space: Material

Steel

Thickness

1 1/2"

Pitch of stays

23 3/4" x 1 1/2"

How are stays secured

D.W.

Working pressure by rules

186

Material of stays

Steel

Area at smallest part

9.98"

Area supported by each stay

458"

Working pressure by rules

204

Material of Front plates at bottom

Steel

Thickness

1"

Material of

Lower back plate

Steel

Thickness

3 1/2"

Greatest pitch of stays

13 1/2" x 9"

Working pressure of plate by rules

220

Diameter of tubes

3 1/2"

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

Steel

Thickness: Front

1"

Back

3/4"

Mean pitch of stays

9" x 9"

Pitch across wide

water spaces

14" x 9"

Working pressures by rules

180.5 lb/sq in

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

8 1/2" x 1 1/2"

Length as per rule

31.5"

Distance apart

9"

Number and pitch of Stays in each

229"

Working pressure by rules

201

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

-

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Made at

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

Date of test

No. of Certificate

Fire grate area

Description of safety valves

No. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Lap of plating

Per centage of strength of joint

Rivets

Plates

Working pressure of shell by rules

Thickness of shell crown plates

Radius of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

plates

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

J. H. & Co. Ltd.

Manufacturer.

Dates

During progress of

work in shops

During erection on

board vessel

Total No. of visits

1923

1924

Nov. 27, Dec. 4, 12, 18, Jan. 4, 10, 15, 23, 24, 29, Feb. 1, 7, 11, 13, 18, 21, 25, Mar. 4, 7, 12, 14, Apr. 1, 8, 24, May 1, 5.

13, 15.

29.

Is the approved plan of main boiler forwarded herewith

Yes

"

"

"

donkey

"

"

"

002853-002857-0151

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.) This boiler has been built under special laws. The materials & workmanship are good on completion it was tested by hydraulic pressure & found sound & tight. The boiler is intended for mobile SS No 36. The boiler has been satisfactorily fitted on board for installation see machinery report.

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 .. £	:	:	When applied for.
Special	£	12-6-0	16. 5. 1924
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £	:	:	24. 6. 1924

Marshall
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

FRI 4 JUL 1924

Assigned

See Gls 43607



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Lloyd's Register
Foundation