

TUES. FEB 26 1907

Rpt. 5.

REPORT ON BOILERS.

No. 24727

Port of Glasgow

Received at London Office

THUR. DEC 27 1906

No. in
Reg. Book.

Survey held at

Date first Survey

Last Survey

on the

Steamer Cord Sefton
Boiler No 1086 for M^{rs} A McMillan & Son No 409

(Number of Visits)

Gross
Tons
Net

Master

Built at

By whom built

When built

Engines made at

Glenoch

By whom made

Rankine & Blackmore

when made

Boilers made at

Glasgow

By whom made

M^{rs} Lindsay Burnett & Co

when made

1906

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Glydebridge & Larnach Ltd

(Letter for record

S)

Total Heating Surface of Boilers

755 1/2

Is forced draft fitted

—

No. and Description of

Boilers

One Single Ended

Working Pressure

100 lb

Tested by hydraulic pressure to

200

Date of test

18.12.06

No. of Certificate

8299

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. of boilers

10' 6"

Length

9' 6"

Material of shell plates

S

Thickness

5/8"

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Single

long. seams

TR Lap

Diameter of rivet holes in long. seams

7/8"

Pitch of rivets

4 1/8"

Lap of plates

width of butt straps

6 1/2"

Per centages of strength of longitudinal joint

79.18

Working pressure of shell by

rules

103

Size of manhole in shell

12 x 16"

Size of compensating ring

5 1/2 x 23/32"

No. and Description of Furnaces in each

boiler

Two plain

Material

S

Outside diameter

36"

Length of plain part

6' 6"

Thickness of plates

5/8"

Description of longitudinal joint

Weld

No. of strengthening rings

—

Working pressure of furnace by the rules

110

Combustion chamber

plates: Material

S

Thickness: Sides

9/16"

Back

9/16"

Top

9/16"

Bottom

9/16"

Pitch of stays to ditto: Sides

10 1/2 x 16"

Back

10 x 9 3/4"

Top

1 1/2 x 8 1/2"

If stays are fitted with nuts or riveted heads

Yes

Working pressure by rules

107

Material of stays

S

Area

1.44

Diameter at

smallest part

1.192

Pitch of stays

17 1/2"

How are stays secured

by nuts

Working pressure by rules

100

Material of stays

S

Area

2.4

Diameter at

smallest part

3.4

Area supported by each stay

7 1/2 x 19"

Working pressure by rules

103

Material of Front plates at bottom

S

Thickness

23/32"

Material of

Lower back plate

Thickness

5/8"

Greatest pitch of stays

10

Working pressure of plate by rules

100

Diameter of tubes

3 1/2"

Pitch of tubes

4 3/4 x 4 1/8"

Material of tube plates

S

Thickness: Front

23/32"

Back

23/32"

Mean pitch of stays

13 1/2"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

102

Girders to Chamber tops: Material

S

Depth and thickness of

girder at centre

7 x 1 1/4"

Length as per rule

25 3/4"

Distance apart

11 1/2"

Number and pitch of Stays in each

Two at 8 1/2"

Working pressure by rules

118

Superheater or Steam chest; how connected to boiler

None

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

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

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,

FOR LINDSAY BURNETT & CO. Manufacturers

Dates
of Survey
while
building

During progress of

work in shops - -

During erection on

board vessel - -

Total No. of visits

1906: Aug. 31. Sep. 28. Oct. 15. 24. 29. Nov. 3. 10. Dec. 6. 14. 18.

Is the approved plan of main boiler forwarded herewith

"

"

"

donkey

"

"

Lloyd's Register
Foundation

W613-0156

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

This Boiler has been made under survey in accordance with the approved plan & the Requirements of the Rules. The Workmanship is good.

Vertical Donkey Boiler		Thickness of plates	Working pressure	Material of plates	Material of rivets	Material of bolts	Material of nuts	Material of washers	Material of gaskets	Material of seals	Material of valves	Material of cocks	Material of pipes	Material of fittings	Material of accessories	Material of tools	Material of consumables	Material of stores	Material of spare parts	Material of other items
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
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