

REPORT ON BOILERS.

Indb. No. 5120
S. No. 23358
TUES. 23 JUL 1907

Date of writing Report

19

When handed in at Local Office

22 July 1907

Port of

Received at London Office

MIDDLESBROUGH-ON-TEES.

No. in Survey held at

Stockton

Date, First Survey

21 February 1907

Last Survey

19 July 1907

Reg. Book.

on the Donkey Boiler of S.S. Moravitz

(Number of Visits 31)

Gross 4799.50

Net 3113.42

Master Emil Gilliam Built at Sunderland

By whom built J. Thompson & Son Ltd

When built 1907

Engines made at Stockton

By whom made Polair & Co Ltd

when made 1907

Boilers made at Stockton

By whom made Polair & Co Ltd

when made 1907

Registered Horse Power

Owners Atlantic Soc Anon de Nav Marit Port belonging to Fiume

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel John Spencer & Son Ltd

(Letter for record S)

Total Heating Surface of Boilers 1373 sq ft

Is forced draft fitted No

No. and Description of

Boilers One Cyl Tubular

Working Pressure 120 lbs

Tested by hydraulic pressure to 240 lbs

Date of test 28-5-07

No. of Certificate 3932

Can each boiler be worked separately

Area of fire grate in each boiler 33 sq ft

No. and Description of

safety valves to each boiler Two spring

Area of each valve 5.94 sq in

Pressure to which they are adjusted 120 lbs

Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork 24 in

Diam. of boilers 12-6 in

Length 10-0 in

Material of shell plates Steel

Thickness 3/4 in

Range of tensile strength 28/32

Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams 20 in long, seams 20 in

Diameter of rivet holes in long. seams 7/8 in

Pitch of rivets 6 3/4 in

Lap of plates or width of butt straps 1-1 7/8 in

Per centages of strength of longitudinal joint rivets 88.4

Working pressure of shell by rules 122 lbs

Size of manhole in shell 16 x 12 in

Size of compensating ring 30 x 26 x 3/4 in

No. and Description of Furnaces in each

boiler Two plain

Material Steel

Outside diameter 3-5 in

Length of plain part top 5-8 in bottom 6-0 in

Thickness of plates crown 9 1/16 in bottom 9 1/16 in

Description of longitudinal joint Welded

No. of strengthening rings

Working pressure of furnace by the rules 131 lbs

Combustion chamber

plates: Material Steel

Thickness: Sides 9 1/16 in Back 9 1/16 in Top 9 1/16 in Bottom 1 1/16 in

Pitch of stays to ditto: Sides 9 3/4 x 9 3/4 in Back 9 3/4 x 9 3/4 in

Top 9 3/4 x 9 3/4 in

If stays are fitted with nuts or riveted heads No

Working pressure by rules 128 lbs

Material of stays Steel

Diameter at smallest part 2 3/8 in

Area supported by each stay 95 sq in

Working pressure by rules 136 lbs

End plates in steam space: Material Steel

Thickness 1 5/16 in

Pitch of stays 20 x 16 1/2 in

How are stays secured 2 x 4 in

Working pressure by rules 123 lbs

Material of stays Steel

Diameter at smallest part 2 3/8 in

Area supported by each stay 330 sq in

Working pressure by rules 184 lbs

Material of Front plates at bottom Steel

Thickness 1 in

Material of

Lower back plate Steel

Thickness 1 5/16 in

Greatest pitch of stays 19 1/2 x 9 3/4 in

Working pressure of plate by rules 127 lbs

Diameter of tubes 3 1/4 in

Pitch of tubes 4 1/2 x 4 5/8 in

Material of tube plates Steel

Thickness: Front 1 in Back 1 3/16 in

Mean pitch of stays 12 3/4 in

Pitch across wide

water spaces 14 1/4 in

Working pressures by rules 145.5 lbs

Girders to Chamber tops: Material Steel

Depth and thickness of

girder at centre 6 3/4 x 1 1/4 in

Length as per rule 26 1/2 in

Distance apart 9 3/4 in

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

Working pressure by rules 130 lbs

Superheater or Steam chest: how connected to boiler

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

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

The foregoing is a correct description,

Geo. K. Milner

Manufacturer.

Dates

During progress of 1907 April 10-11-24 May 2-7-22

while building

During erection on board vessel June 26-28 July 2-3

Is the approved plan of boiler forwarded herewith

Total No. of visits 10

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c. This boiler has been

constructed under special survey. The materials & workmanship are good and efficient & when tested under steam was found tight and satisfactory.

Survey Fee

...

£

2:

2:

9

When applied for, 10-7-1907

Travelling Expenses (if any)

£

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:

:

When received, 19-7-1907

Geo. K. Milner

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. JUL 26 1907

Assigned

on minute

on attached report

Lloyd's Register
Foundation

W 488-0229