

REPORT ON BOILERS.

No. 85629

Received at London Office

29 APR 1930

Date of writing Report

When handed in at Local Office

24/4/30 Port of

NEWCASTLE-ON-TYNE

opening

No. in Survey held at

Kalsend-on-Tyne

Date, First Survey

5-3-30

Last Survey

11 March 1930

(Number of Visits 2)

Gross Tons Net

Master

Built at

Queensferry

By whom built

J. J. Abela & Mitchell Ltd.

Yard No.

When built 1930

Engines made at

By whom made

Engine No.

When made

Boilers made at

Kalsend

By whom made

North Eastern Marine & Co. Ltd.

Boiler No. 2487

When made 1930

Nominal Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record

Total Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

one single ended.

Working Pressure

180 lbs

Tested by hydraulic pressure to

320

Date of test

5-3-30

No. of Certificate

9480

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Area of each set of valves per boiler

per Rule as fitted

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

Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

Long. seams

Diameter of rivet holes in

circ. seams long. seams

Pitch of rivets

Percentage of strength of circ. end seams

plate rivets

Percentage of strength of circ. intermediate seam

plate rivets

Percentage of strength of longitudinal joint

plate rivets combined

Working pressure of shell by Rules

Thickness of butt straps

outer inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top bottom

Thickness of plates

crown bottom

Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Working pressure by Rules

Tube plates: Material

front back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

At centre

Length as per Rule

Distance apart

No. and pitch of stays

In each

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Diameter

At body of stay, or over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

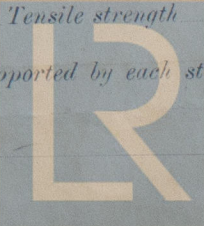
Tensile strength

Diameter

At turned off part, or over threads

No. of threads per inch

Area supported by each stay



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W999-0116



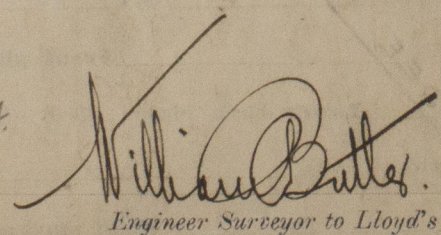
Working pressure by Rules	Are the stays drilled at the outer ends	Margin stays: Diameter	At turned off part, or Over threads
No. of threads per inch	Area supported by each stay	Working pressure by Rules	
<b>Tubes: Material</b>	External diameter <sup>Plain</sup> <sub>Stay</sub>	Thickness	No. of threads per inch
Pitch of tubes	Working pressure by Rules	<b>Manhole compensation: Size of opening in</b>	
shell plate	Section of compensating ring	No. of rivets and diameter of rivet holes	
Outer row rivet pitch at ends	Depth of flange if manhole flanged	<b>Steam Dome: Material</b>	
Tensile strength	Thickness of shell	Description of longitudinal joint	
Diameter of rivet holes	Pitch of rivets	Percentage of strength of joint	<sup>Plate</sup> <sub>Rivets</sub>
Internal diameter	Working pressure by Rules	Thickness of crown	No. and diameter of
stays	Inner radius of crown	Working pressure by Rules	
How connected to shell	Size of doubling plate under dome	Diameter of rivet holes and pitch	
of rivets in outer row in dome connection to shell			
<b>Type of Superheater</b>	Manufacturers of	<sup>Tubes</sup> <sub>Steel castings</sub>	
Number of elements	Material of tubes	Internal diameter and thickness of tubes	
Material of headers	Tensile strength	Thickness	Can the superheater be shut off and
the boiler be worked separately	Is a safety valve fitted to every part of the superheater which can be shut off from the boiler		
Area of each safety valve	Are the safety valves fitted with easing gear		Working pressure as per
Rules	Pressure to which the safety valves are adjusted		Hydraulic test pressure:
tubes	castings	and after assembly in place	Are drain cocks or valves fitted
to free the superheater from water where necessary			
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with			
The foregoing is a correct description,			
Manufacturer.			

Dates of Survey while building	During progress of work in shops - - )	Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
	During erection on board vessel - - - )	Total No. of visits

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

Boiler examined internally & externally & no deterioration was found to have taken place. Retested & 370 lbs. & found satisfactory.

It is submitted that this boiler be classed with year 1930.

Survey Fee ... .. £	4 : 4 : 0 ✓	When applied for	25 APR 1930
Travelling Expenses (if any) £	✓ : : ✓	When received	5/6/30 L.R.H.
Committee's Minute		TUE. 28 OCT 1930	
Assigned		 Engineer Surveyor to Lloyd's Register of Shipping.	