

REPORT ON BOILERS.

No. 64838

25 DEC 1941

11 MAY 1942

Received at London Office

Rpt. 5a.

Date of writing Report

No. in Survey held at
eg. Book.

on the

Master

Engines made at

Boilers made at

Nominal Horse Power

When handed in at Local Office

22: 12: 19 41 Port of

Date, First Survey

Last Survey

(Number of Visits

Tons

Gross

Net

EMPIRE SPRUCE

Built at

By whom built

Yard No.

When built

By whom made

Engine No.

When made

By whom made

Boiler No.

When made

Owner's

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Total Heating Surface of Boilers

No. and Description of Boilers

Tested by hydraulic pressure to

Area of Firegrate in each Boiler

Area of each set of valves per boiler

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

Smallest distance between shell of boiler and tank top plating

Largest internal dia. of boilers

Thickness

Long. seams

Percentage of strength of circ. end seams

Percentage of strength of longitudinal joint

Thickness of butt straps

Material

Length of plain part

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

End plates in steam space

How are stays secured

Tube plates

Mean pitch of stay tubes in nests

Girders to combustion chamber tops

at centre

in each

Tensile strength

Pitch of stays to ditto

Working pressure by Rules

Thickness

Pitch of stays at wide water space

Working Pressure

Diameter

Working pressure by Rules

Diameter

Working pressure by Rules

Diameter

Working pressure by Rules

Diameter

Working pressure by Rules

Diameter

Working pressure by Rules

Is forced draught fitted

(Letter for Record

Coal or Oil fired

Working Pressure

No. of Certificate

No. and Description of safety valves to each boiler

Pressure to which they are adjusted

Are they fitted with easing gear

Is oil fuel carried in the double bottom under boilers

Is the bottom of the boiler insulated

Shell plates

Description of riveting

Pitch of rivets

Percentage of strength of circ. intermediate seam

Working pressure of shell by Rules

No. and Description of Furnaces in each Boiler

Tensile strength

Smallest outside diameter

Description of longitudinal joint

Working pressure of furnace by Rules

Tensile strength

Working pressure by Rules

Tensile strength

Working pressure by Rules

Tensile strength

Working pressure by Rules

Tensile strength

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Tensile strength

Working pressure by Rules

Tensile strength

Working pressure by Rules

Tensile strength

Working pressure by Rules

Area supported by each stay

Tensile strength

Area supported by each stay

Tensile strength

Area supported by each stay

Tensile strength

Area supported by each stay

Tensile strength

005756-005778-0056

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Foundation

Working pressure by Rules ☒ Are the stays drilled at the outer ends ☒ No Margin stays: Diameter ☒ At turned off part, or Over threads. 1 7/8
No. of threads per inch 9 Area supported by each stay ☒ Working pressure by Rules
Tubes: Material SD Steel External diameter { Plain 2 3/4 Stay 2 3/4 Thickness { 8 wt 3/8 No. of threads per inch 9
Pitch of tubes 4 x 3 3/4 Working pressure by Rules Manhole compensation: Size of opening
shell plate 16 1/2 x 20 1/2 Section of compensating ring 17 x 1 1/2 No. of rivets and diameter of rivet holes 44 - 1 1/2
Outer row rivet pitch at ends 8 1/2 Depth of flange if manhole flanged 3 1/2 Steam Dome: Material ☒
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets
Internal diameter Working pressure by Rules Thickness of crown No. and diameter
stays Inner radius of crown Working pressure by Rules Diameter of rivet holes and pitch
How connected to shell Size of doubling plate under dome
of rivets in outer row in dome connection to shell

Type of Superheater

Manufacturers of { Tubes Steel forgings Steel castings
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut off
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
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure
tubes forgings and castings and after assembly in place Are drain cocks
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,

John Thompson (Marine Boilers) Ltd

R. Prindleton

Manufactured

Dates of Survey { During progress of work in shops - - - June 20-30 July 1-14 Aug 7-20-30 Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - - Sep 11-24 Oct 7-16-20-29 Nov 11-18 Total No. of visits 15
Dec 2

Is this Boiler a duplicate of a previous case ☒ Yes If so, state Vessel's name and Report No. BR N° 5156 Rpt N° 63981

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

The boiler has been constructed under Special Survey in accordance with the approved plan and the Society's Rules.
The material and workmanship are good.
The boiler is intended for Messrs R. Dunston, Thorne Road N° 364.

Rob
22/12/41

Survey Fee ... £ 9
Travelling Expenses (if any) £ :

When applied for 23 DEC 1941
When received, 19

J.R. Dale

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 23 DEC 1941

Assigned Deputed

FRI 15 MAY 1942

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