

REPORT ON BOILERS.

No. 23245.

Received at London Office

20 MAR 1946

Date of writing Report 12th MARCH 1946 When handed in at Local Office 14th MARCH 1946 Port of GREENOCKNo. in Survey held at
Reg. Book.

GREENOCK

Date, First Survey 3rd APRIL 1944 Last Survey 26th FEBRUARY 1946364
1350

on the

SING. S. "BRITISH SUCCESS" OIL ENG. TANKER.

(Number of Visits ✓)

Tons

(Gross

Net

8215
4769

Built at GLASGOW

By whom built BLYTHSWOOD SHIP^B. CO. LD

Yard No. 81

When built 1946

Engines made at

GREENOCK

By whom made

JOHN G. KINCAID & CO. LTD.

Engine No. 1167

When made 1946

Boilers made at

GREENOCK

By whom made

JOHN G. KINCAID & CO. LD

Boiler No. 1167

When made 1946

Nominal Horse Power

490

Owners

BRITISH TANKER CO. LD

Port belonging to

London

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

COLVILLE & CO. LD

(Letter for Record (S) ✓)

Total Heating Surface of Boilers

3302

Is forced draught fitted

yes ✓

Coal or Oil fired Oil or Gas ✓

No. and Description of Boilers

Two Single ended

Working Pressure 150 lbs ✓

Tested by hydraulic pressure to

275 lb

Date of test

30/11/44

No. of Certificate

2393

Can each boiler be worked separately yes ✓

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Two 2" I.H.L. ✓

Area of each set of valves per boiler

(per Rule

6.25

as fitted

6.28

Pressure to which they are adjusted

150 lbs

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 ✓

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

On tween deck ✓

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

12-5 1/8"

Length

11'-0"

Shell plates: Material

S ✓

Tensile strength

29/33 tons ✓

Thickness

7/8"

Are the shell plates welded or flanged

No ✓

Description of riveting: circ. seams

end

29

Long. seams

T.R.D.B.S. ✓

Diameter of rivet holes in

circ. seams

15/16

long. seams

15/16

Pitch of rivets

2.873

6.75

Percentage of strength of circ. end seams

plate

67.36

rivets

43.7

Percentage of strength of circ. intermediate seam

plate

86.1

rivets

86.8

Percentage of strength of longitudinal joint

plate

86.1

rivets

86.8

combined

89.5

Thickness of butt straps

outer

2 1/32"

inner

2 5/32"

No. and Description of Furnaces in each Boiler

Two Dighton corrugated ✓

Material

S ✓

Tensile strength

26/30 tons ✓

Smallest outside diameter

3'-9" ✓

Length of plain part

top

✓

Thickness of plates

crown

1/2" ✓

Description of longitudinal joint

Weld ✓

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

End plates in steam space: Material

S ✓

Tensile strength

26/30 tons ✓

Thickness

1 1/32" ✓

Pitch of stays 19 x 16 1/2" ✓

How are stays secured

DN. ✓

Tube plates: Material

front

S ✓

Tensile strength

26/30 tons ✓

Thickness

15/16

1 1/16

Mean pitch of stay tubes in nests

9.5

Pitch across wide water spaces

13 1/2" ✓

Girders to combustion chamber tops: Material

S ✓

Tensile strength

29/33 tons ✓

Depth and thickness of girder

at centre

8 3/4 x 1 1/2" ✓

Length as per Rule

2'-9 1/16" ✓

Distance apart

8 1/2" ✓

No. and pitch of stays

in each

3 @ 8" ✓

Combustion chamber plates: Material

Tensile strength

26/30 tons ✓

Thickness: Sides

5/8" ✓

Back

5/8" ✓

Top

5/8" ✓

Bottom

3/4" ✓

Pitch of stays to ditto: Sides

9 x 8" ✓

Back

9 x 9" ✓

Top

8 x 8 1/2" ✓

Are stays fitted with nuts or riveted over

Nuts ✓

Front plate at bottom: Material

S ✓

Tensile strength

26/30 tons ✓

Thickness

1 1/16" ✓

Lower back plate: Material

S ✓

Tensile strength

26/30 tons ✓

Thickness

7/8" ✓

Pitch of stays at wide water space

14 x 9" ✓

Are stays fitted with nuts or riveted over

Nuts ✓

Main stays: Material

S ✓

Tensile strength

28/32 tons ✓

Diameter

At body of stay,

2 1/2" ✓

No. of threads per inch

6 ✓

Screw stays: Material

S ✓

Tensile strength

26/30 tons ✓

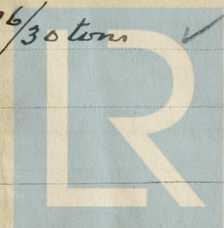
Diameter

At turned off part,

1 1/2" & 1 5/8" ✓

No. of threads per inch

9 ✓



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Lloyd's Register
Foundation

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Are the stays drilled at the outer ends No ✓ Margin stays: Diameter { At turned off part, 1 3/4" ✓
or Over threads
No. of threads per inch 9 ✓
Tubes: Material S ✓ External diameter { Plain 2 1/2" ✓ Stay 2 1/2" ✓ Thickness { 9/32" ✓ 5/16" ✓ No. of threads per inch 9 ✓
Pitch of tubes 3 3/4" x 3 7/8" ✓ Manhole compensation: Size of opening
shell plate 16" x 20" ✓ Section of compensating ring 2' 9" x 2' 5" x 1" ✓ No. of rivets and diameter of rivet holes 38 - 1 1/8" ✓
Outer row rivet pitch at ends 8" ✓ Depth of flange if manhole flanged McNeil type ✓ 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 _____ Thickness of crown _____ No. and diameter of stays _____ Inner radius of crown _____
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 _____
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 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 _____
Pressure to which the safety valves are adjusted _____ Hydraulic test pressure _____
tubes _____ forgings and 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,
For JOHN G. KINCAID & CO. LIMITED.
Director. Manufacturer.

Dates of Survey { During progress of work in shops - - }
while building { During erection on board vessel - - }
SEE MACHINERY REPORT

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
Total No. of visits

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. EMPIRE TRINIDAD GR4 FE 23195

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
This boiler has been built under Special Survey in accordance with the Rules & approved plans, the materials & workmanship are sound & good. It has been affixed to the vessel & their safety valves adjusted under steam 103 lbs/sq. in.
Please see machinery report Greenock N° 23275 for recommendations

Survey Fee ... £ :
Travelling Expenses (if any) £ :
When applied for, 19
When received, 19
See machinery report

Charles J. Hunter
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 19 MAR 1946

Assigned SEE ACCOMPANYING MACHINERY REPORT.