

REPORT ON BOILERS.

No. 9846

Received at London Office

Date of writing Report

19

When handed in at Local Office

16th May 1952

Port of

DUNDEE.

14-JUN 1952

No. in
Reg. Book.

Survey held at

DUNDEE

Date, First Survey

12th JUNE 1951.

Last Survey

24th APRIL 1952.

(Number of Visits 14)

Gross 2157

Tons Net 905

36103. on the SINGLE SCREW OIL TANKER "EDDYBAY"

Built at

DUNDEE

By whom built

MESSRS. CALEDON S. B. & E. CO. LTD.,

Yard No. 480.

When built 1952.

Engines made at

RENFREW, GLASGOW.

By whom made

MESSRS. LOBNITZ & CO. LTD.,

Engine No. B1472

When made 1952.

Boilers made at

DUNDEE.

By whom made

MESSRS. CALEDON S. B. & E. CO. LTD.,

Boiler No. 680.

When made 1952.

Nominal Horse Power

Owners

THE ADMIRALTY.

Port belonging to

LONDON.

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY~~, OR ~~DONKEY~~.

Manufacturers of Steel

MESSRS. COLVILLES LTD. MOTHERWELL.

(Letter for Record S.

Total Heating Surface of Boilers

7530 SQ. FT. ✓

3765

Is forced draught fitted

YES. ✓

Coal or Oil fired

OIL. ✓

No. and Description of Boilers

TWO CYLINDRICAL MULTITUBULAR. ✓

Working Pressure 250 lb/sq. in.

Tested by hydraulic pressure to

42.5 lb. ✓

Date of test

STAR 23-11-51.

No. of Certificate

1076-7.

Can each boiler be worked separately

YES. ✓

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

ONE DOUBLE SPRING IMP. H. L. ✓

Area of each set of valves per boiler

per Rule AS APPROVED

as fitted 9.68 sq. in. ✓

Pressure to which they are adjusted

250 lb/sq. in. ✓

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

2' - 6" ✓

Is oil fuel carried in the double bottom under boilers

NO

Smallest distance between shell of boiler and tank top plating

10" ✓

Is the bottom of the boiler insulated

YES.

Largest internal dia. of boilers

16' - 3" ✓

Length

12' - 3" ✓

Shell plates: Material S. M. STEEL. Tensile strength 30-34. ✓

Thickness

1 23/32" ✓

Are the shell plates welded or flanged

Description of riveting: circ. seams

end DOUBLE RIVETED. ✓

long. seams

T.R.D.B.S. ✓

Diameter of rivet holes in

circ. seams

1 23/32" ✓

Pitch of rivets

4.352" ✓

Percentage of strength of circ. end seams

plate

60.5 %.

rivets

47.5 %.

Percentage of strength of circ. intermediate seam

plate

✓

rivets

✓

Percentage of strength of longitudinal joint

plate

84.89 %.

rivets

85.2 %.

combined

86.7 %.

THESE BLKS REINSTALLED IN SS "LEONIS" 12/66

Thickness of butt straps

outer 1 5/16" ✓

inner 1 7/16" ✓

No. and Description of Furnaces in each Boiler 3 DEIGHTON SECTION STEPHEN GOURLAY NECK.

Material

S. M. STEEL.

Tensile strength

26-30 TONS. ✓

Smallest outside diameter

4'-2 5/8" ✓

Length of plain part

top ✓

bottom ✓

Thickness of plates

crown 13/16" ✓

bottom

Description of longitudinal joint

WELDED. ✓

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

NONE. ✓

End plates in steam space: Material

S. M. STEEL.

Tensile strength 26-30 TONS.

Thickness

2 9/32" ✓

Pitch of stays 8" x 9"

How are stays secured

NUTS INSIDE & OUTSIDE. ✓

Tube plates: Material

front

S. M. STEEL.

Tensile strength

26-30 TONS. ✓

Thickness

FRONT 13/16" x

BACKS 23/32" ✓

Mean pitch of stay tubes in nests

8' 31" ✓

Pitch across wide water spaces

19" ✓

Girders to combustion chamber tops: Material

S. M. STEEL.

Tensile strength 28-32 TONS.

Depth and thickness of girder

at centre

11" x 7/8" ✓

Length as per Rule

3'-4" ✓

Distance apart

9" ✓

No. and pitch of stays

in each

3 AT 9" ✓

Combustion chamber plates: Material S. M. STEEL.

Tensile strength

26-30 TONS. ✓

Thickness: Sides

2 5/32" ✓

Back

2 3/32" ✓

Top

2 5/32" ✓

Bottom

1 5/16" ✓

Pitch of stays to ditto: Sides

9" x 9" ✓

Back

9" x 8" ✓

Top

9" x 9" ✓

Are stays fitted with nuts or riveted over

NUTS. ✓

Front plate at bottom: Material

S. M. STEEL.

Tensile strength 26-30 TONS. ✓

Thickness

1 5/16" ✓

Lower back plate: Material S. M. STEEL.

Tensile strength 26-30 TONS.

Thickness

2 9/32" ✓

Pitch of stays at wide water space

19" ✓

Are stays fitted with nuts or riveted over

NUTS. ✓

Main stays: Material

S. M. STEEL.

Tensile strength 28-32 TONS. ✓

Diameter

At body of stay,

3" ✓

Over threads

3 1/4" ✓

No. of threads per inch

6. THREADS/INCH. ✓

Screw stays: Material

S. M. STEEL.

Tensile strength 26-30 TONS. ✓

Diameter

At turned off part,

1 7/8" ✓

Over threads

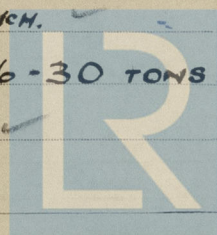
No. of threads per inch

9 TH./IN. ✓

If a Report also sent on the Hull of the Ship?

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Are the stays drilled at the outer ends No. Margin stays: Diameter At turned off part 2" or Over threads 2" ✓

No. of threads per inch 9 TH./IN. ✓

Tubes: Material S. J. STEEL. External diameter Plain 2 1/2" Thickness 8 LSG. No. of threads per inch 9 TH./IN.
Stay 2 1/2" 5/16", 3/8", 7/16"

Pitch of tubes 5 3/4" (HORIZ.), 3 5/8" (VERT.) ✓ Manhole compensation: Size of opening in shell plate 21" x 17" ✓ Section of compensating ring 3'-0" x 3'-4" x 1 5/8" TK. No. of rivets and diameter of rivet holes 26; 1 23/32 DIA.

Outer row rivet pitch at ends 4' 352" ✓ Depth of flange if manhole flanged 4 1/2" ✓ Steam Dome: Material NONE.

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 ✓

How connected to shell ✓ Inner radius of crown ✓

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 NONE 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 YES.

FOR AND ON BEHALF OF
THE CALEDON SHIPBUILDING & ENGINEERING CO. LTD.

The foregoing is a correct description,

W. J. Taylor MANAGING DIRECTOR
Manufacturer.

Dates of Survey During progress of 1951, JUNE 12, 16, 19, OCT 23, 30, NOV 2, 8, 13 Are the approved plans of boiler and superheater forwarded herewith YES. (11-8-49)
while work in shops - - 16, 20, 23, 27 DEC. 7, 18. (If not state date of approval.)
building During erection on SEE MACHINERY REPORT. Total No. of visits ✓
board vessel - -

Is this Boiler a duplicate of a previous case YES. If so, state Vessel's name and Report No. R.F.A. "EDDYBEACH" JONDEE 9825.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The two main boilers described herein, have been built to Special Survey in accordance with the approved plans, the requirements of the Rules and the Secretary's letters, suitable for a working pressure of 250 lbs/sq. in. They have been efficiently installed on board the vessel. Safety valves have been adjusted under steam and found satisfactory. Boilers are eligible, in our opinion, to be classed + L.M.C. 4, 52.

2/5 (OLD SCALE.) £ 58 : 0 : 0. ✓
 Survey Fee SPECIFICATION. £ 58 : 0 : 0. ✓ When applied for, 17/5/ 19 52.
 Travelling Expenses (if any) £ : : When received, 19

R. W. Skinner, for self, J. McLaren & H. K. Taylor.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 3 JUN 1952

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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