

REPORT ON BOILERS.

No. 9337

Received at London Office

25 OCT 1952

7/10/ 19 52

When handed in at Local Office

7/10/ 19 52

Port of

SINGAPORE

Survey held at

SINGAPORE

Date, First Survey

15/9/52

Last Survey

20/9/ 19 52

on the Steel Twin Screw Motor Vessel

"ORESTES"

(Number of Visits 3)

Gross 7765

Net 4737

BELFAST

By whom built

WORKMAN, CLARK & CO. LTD.

Yard No.

When built

1926

COPENHAGEN

By whom made

AKT BURMEISTR & WAIN

Engine No.

When made

1926

ANNAN

By whom made

COCHRAN & CO. LTD.

Boiler No.

9769

When made

1926

ALFRED HOLT & COMPANY

(OCEAN S.S. CO. LTD)

Port belonging to

LIVERPOOL

VERTICAL DONKEY BOILER.

at ANNAN

By whom made

COCHRAN & CO. LTD.

Boiler No. 9769

When made 1926

Where fixed

E.R. Platform)
Aft. Star. Side)

Manufacturers of Steel

SIEMENS MARTIN

Heating Surface of Boiler

500 sq.ft. ✓

Is forced draught fitted

Yes ✓

Coal or Oil fired

Oil ✓

Description of Boilers

One:- Cochran Patent Vertical Multitubular Boiler

Working pressure

100 lbs

Tested by hydraulic pressure to

B.O.T. Requirements

Date of test

1926

No. of Certificate

-

Area of Firegrate in each Boiler

26.75 sq.ft.

No. and Description of safety valves to each boiler

2:- Spring Loaded, Ordinary Lift

Area of each set of valves per boiler

per rule -
as fitted 9.8 sq. ins.

Pressure to which they are adjusted

100 lbs/✓

Are they fitted with easing gear

Yes ✓

Whether steam from main boilers can enter the donkey boiler

No Main Boilers

Smallest distance between boiler or uptake and bunkers

Clearance

Well Clear

Is oil fuel carried in the double bottom under boiler

Yes

Smallest distance between base of boiler and tank top plating

30 ins.

Is the base of the boiler insulated

No

Largest internal dia. of boiler

7'-0" ✓

Height

16'-0" ✓

Shell plates: Material

S.M. Mild Steel Plates

Tensile strength

28-32 tons ✓

Thickness

1/2" & 5/8" ✓

Are the shell plates welded or flanged

No ✓

If fusion welded, state name of welding firm

-

Do all the requirements of the Rules for Class I vessels been complied with

-

Description of riveting: circ. seams

(end Single and)
(inter. D.R. Lap.)

Seams Single & D.R. Lap

Dia. of rivet holes in

circ. seams 27/32" ✓
long. seams 27/32" ✓

Pitch of rivets

2.125 & 2.88
2.75 & 2.68

Percentage of strength of circ. seams

(BOT) plate 67.5
rivets 67.2

Longitudinal joint

plate -
rivets -
combined -

Thickness of butt straps

outer 1/2" ✓
inner -

Shell Crown: Whether complete hemisphere, dished partial

Shape

Complete Hemisphere

Material

M.S.

Tensile strength

28-32 tons ✓

Thickness

7/16 & 7/8 ins. ✓

Height

3'-6" ✓

Description of Furnace: Plain, spherical, or dished crown

Spherical ✓

Material

M.S.

Strength

26-30 tons ✓

Thickness

17/32 ins. ✓

External diameter

top -
bottom -

Length as per rule

-

Are support stays circumferentially

-

Are stays fitted with nuts or riveted over

-

Radius of stays over thread

Radius of spherical or dished furnace crown

3'-0" ✓

Thickness of Ogee Ring

7/8 ins. (D:7'-0") (d:5'-10.15/16")

Diameter as per rule

D -
d -

Combustion Chamber: Material

-

Tensile strength

-

Thickness of top plate

-

Is it dished

-

Thickness of back plate

-

Diameter if circular

-

As per rule

Pitch of stays

-

Are stays fitted with nuts or riveted over

-

Diameter of stays over thread

-

Plates: Material

front M.S.
back M.S.

Tensile strength

26-30 ✓
26-30 ✓

Thickness

7/8 ins. ✓
3/4 ins. ✓

Mean pitch of stay tubes in nests

Hortl: 10.5 ins.
Vert: 7.2 ins.

Spacing shell, Dia. as per rule

front -
back -

(Stay Tubes)
Pitch in outer vertical rows

8 ins. ✓
8 ins. ✓

Dia. of tube holes FRONT

stay 2.11/16"
plain 2.9/16"

stay 2 1/2 ins.
plain 2 1/2 ins.

Do alternate tube in outer vertical rows a stay tube

Yes ✓

Stays to combustion chamber tops: Material

Steel

Tensile strength

28-32 tons

Size and thickness of girder at centre

(5" Gusset Plate with Double 3x3 1/2
Angles to Shell & Flanges Tube Plate

Length as per rule

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Distance apart

One only

No. and pitch of stays in each

-

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Crown stays: Material - Tensile strength - Diameter { at body of stay, - or over threads, -
No. of threads per inch - Screw stays: Material - Tensile strength -
Diameter { at turned off part, - or over threads, - No. of threads per inch - Are the stays drilled at the outer ends -
Tubes: Material Steel External diameter { plain 2 1/2 ins. ✓ stay 2 1/2 ins. Thickness { 11 L.S.G. 11/32 ins. ✓
No. of threads per inch 9 ✓ Pitch of tubes Vertical 4 ins. ✓ Horizontal 3 3/4 ins. ✓
Manhole Compensation: Size of opening in shell plate 12"x15" ✓ Section of compensating ring { Hor. 6 1/2"x11/16" each side No. of rivets and dia Built
of rivet holes 36 @ 27/32 ins. Outer row rivet pitch at ends 3.92". 25"P.C.D. Depth of flange if manhole flanged ✓ Not Flanged Own
Uptake: External diameter 2'-4 3/4" Thickness of uptake plate -
Cross Tubes: No. - External diameters { - Thickness of plates -
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes
The foregoing is a correct description,
Manufac

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

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. "IDOMENEUS"

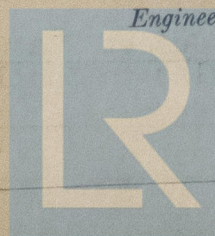
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler, originally built B.O.T. Requirements, has been examined internally and externally, together with its safety valve mountings, manholes, doors and their fastenings, and all found in good and efficient condition. The materials used and the workmanship throughout, so far as can be seen, are good. The donkey boiler, in my opinion, is in a good and efficient condition and eligible to be classed with the Society and to have the record of D.Blr.S. 9,52.

Survey Fee ... £ Please see Report 9: When applied for, 19
Travelling Expenses (if any) £ When received, 19

Committee's Minute TUES. 18 NOV 1952

Assigned

See Log 9334



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