

REPORT ON BOILERS.

No. 102268

15 AUG 1944

Received at London Office

Date of writing Report

19

When handed in at Local Office

9. 8. 1944

Port of

NEWCASTLE-ON-TYNE

No. in
Reg. Book.

Surrey held at

Wallsend.

Date, First Survey

(1943) Apr. 14th

Last Survey

31st July 1944

on the

Motor Tanker "NEVERITA"

(Number of Visits)

17

Tons

Gross 18265

Net 4781

Built at Newcastle

By whom built

Swan Hunter Wigham Richardson Ltd

Yard No.

1687

When built

1944.7

Engines made at

"

By whom made

Hawthorn Leslie Ltd.

Engine No.

3999

When made

"

Boilers made at

"

By whom made

Ch. E. Marine Eng Co (1939) Ltd

Boiler No.

3051

When made

1943.

Nominal Horse Power

277.

Owners

Anglo-Saxon Petroleum Co Ltd

Port belonging to

London

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Steel Co of Scotland Ltd

(Letter for Record

S

Total Heating Surface of Boilers

4160 sq. ft.

Is forced draught fitted

yes

Coal or Oil fired

oil

No. and Description of Boilers

2 DB.

Working Pressure

180 lbs.

Tested by hydraulic pressure to

320 lbs

Date of test

8. 6. 43

No. of Certificate

1046

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

8.0 sq. ft.

No. and Description of safety valves to each boiler

2 - 2 1/2" Cockburns Improved High Lift

Area of each set of valves per boiler

per Rule

8.0 sq. ft.

as fitted

9.8 "

Pressure to which they are adjusted

180 lbs

Are they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

yes

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

Bbs are on flat in E.Rm.

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

13'-0"

Length

12'-4"

Shell plates: Material

Steel

Tensile strength

29-33

Thickness

1 3/4"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end DR

long. seams

T.R. DBS.

Diameter of rivet holes in

circ. seams

1 1/8"

long. seams

Pitch of rivets

3 1/4"

7 13/16"

Percentage of strength of circ. end seams

plate

65.4

rivets

46.3

Percentage of strength of circ. intermediate seam

plate

85.6

rivets

90.2

Percentage of strength of longitudinal joint

plate

85.6

rivets

90.2

combined

89.2

Thickness of butt straps

outer 1 3/16"

inner 1 5/16"

No. and Description of Furnaces in each Boiler

2 cf. morison type.

Material

Steel

Tensile strength

26-30

Smallest outside diameter

3'-8 3/8"

Length of plain part

top

bottom

Thickness of plates

crown 9/16"

bottom 9/16"

Description of longitudinal joint

weld.

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

yes

End plates in steam space: Material

Steel

Tensile strength

26-30

Thickness

1 9/32"

Pitch of stays 1'-11" x 1'-5"

How are stays secured

Double nuts

Tube plates: Material

front Steel

back Steel

Tensile strength

26-30

Thickness

29/32"

29/32"

Mean pitch of stay tubes in nests

9 7/8"

Pitch across wide water spaces

13 3/4" x 7 3/4"

Girders to combustion chamber tops: Material

Steel

Tensile strength

29-33

Depth and thickness of girder

at centre

10 x 27 1/32 dble

Length as per Rule

3'-1 33/64"

Distance apart

10 1/2"

No. and pitch of stays

in each

3 @ 9"

Combustion chamber plates: Material

Steel

Tensile strength

26-30

Thickness: Sides

4 5/64"

Back

4 5/64"

Top

4 5/64"

Bottom

1"

Pitch of stays to ditto: Sides

9 x 6 7/8"

Back

7 1/2 x 8 3/8"

Top

9 x 10 1/2"

Are stays fitted with nuts or riveted over

margin stays nutted others riveted

Front plate at bottom: Material

Steel

Tensile strength

26-30

Thickness

29/32"

Lower back plate: Material

Steel

Tensile strength

26-30

Thickness

7/8"

Pitch of stays at wide water space

15" x 8 3/8"

Are stays fitted with nuts or riveted over

margin stays nutted remainder riveted

Main stays: Material

Steel

Tensile strength

28-32

Diameter

At body of stay, or over threads

3"

No. of threads per inch

6

Fore stays: Material

Steel

Tensile strength

26-30

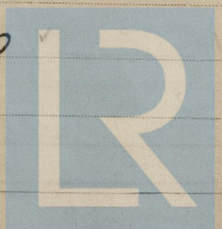
Diameter

At turned off part, or over threads

1 1/2"

No. of threads per inch

9



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Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 3/4" or 2" Over threads 1 3/4" + 2" ✓
No. of threads per inch 9 ✓
Tubes: Material L.W. iron External diameter { Plain 2 3/4" Stay 2 3/4" Thickness { 9 1/8" No. of threads per inch 9
Pitch of tubes 4" x 3 7/8" Manhole compensation: Size of opening in
shell plate 20 1/2" x 16 1/2" Section of compensating ring 8 1/2" x 1 1/8" No. of rivets and diameter of rivet holes 17 1 1/2"
Outer row rivet pitch at ends 10 1/2" Depth of flange if manhole flanged 3 3/4" 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 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 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

THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.
The following is a correct description,

John Neill

Manufacturer

DIRECTOR

Dates of Survey { During progress of work in shops - - (1943) Apr. 14, 20 May 4, 10, 12, 25 Are the approved plans of boiler and superheater forwarded herewith 13.7.42.
while building { During erection on board vessel - - 26, June 1, 2, 4, 8, 11, 15 July 19. (If not state date of approval.)
Aug. 27, Nov. 24, (1944) July 31 Total No. of visits 17

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

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

These Boilers have been constructed under Special Survey in accordance with the approved plan and the Society's Rules, and the materials & workmanship are good

The Boilers have been efficiently fitted on board the vessel and tested under steam with satisfactory results

See also Machinery Rpt

Survey Fee ... £ 27 14 :-
Travelling Expenses (if any) £ 26 17 :-

When applied for, 14 AUG 1944

When received, 19

For R. Moffitt & Self. A. Watt

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 18 AUG 1944

Assigned

see minute on JERpt.



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