

REPORT ON BOILERS.

No. 33638

Received at London Office

Date of writing Report

When handed in at Local Office

17 DEC 1942

Port of

SUNDERLAND.

No. in Survey held at
Reg. Book

SUNDERLAND.

Date, First Survey

Nov. 3

Last Survey

Dec 10

1942

on the

m.v. "Hawlesden"

(Number of Visits 7)

Gross 7273

Tons Net 4984

Built at Sunderland

By whom built

W. Scaford & Sons, Ltd.

Yard No. 699

When built 1942

Engines made at

do.

By whom made

do.

Engine No.

do. When made do.

Boilers made at

do.

By whom made

N.E. Mar. Eng. Co. (1938), Ltd.

Boiler No. 4041

When made do.

Nominal Horse Power

Owners

Port belonging to

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

Manufacturers of Steel

applied by Nottingham S.L. Ltd.

(Letter for Record S)

Total Heating Surface of Boilers

2130 sq

Is forced draught fitted

yes

Coal or Oil fired

oil

No. and Description of Boilers

M. Single Ended Cylindrical

Working Pressure 120 lb.

Tested by hydraulic pressure to

230 lb.

Date of test

10/12/42

No. of Certificate

4467

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2. Direct Spring: High Lift.

Area of each set of valves per boiler

per Rule

13-15"

as fitted

14-12"

Pressure to which they are adjusted

120

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

Smallest distance between shell of boiler and tank top plating

2'-9"

Is the bottom of the boiler insulated

Largest internal dia. of boilers

12'-10 9/16"

Length

11'-6"

Shell plates: Material

Steel

Tensile strength

29/33

Thickness

23/32"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end D.R.L.

long. seams

T.R.D.B.S.

Diameter of rivet holes in

circ. seams

1 1/16"

Pitch of rivets

3-238"

Percentage of strength of circ. end seams

plate

67-19.

rivets

60-40.

Percentage of strength of circ. intermediate seam

plate

—

rivets

—

Percentage of strength of longitudinal joint

plate

86-31.

rivets

93-53.

combined

87-21.

Thickness of butt straps

outer

9/16"

inner

1 1/16"

No. and Description of Furnaces in each Boiler

3 Dighton - Stephen - Jurlay nests.

Material

Steel

Tensile strength

26/30

Smallest outside diameter

3'-0 1/4"

Length of plain part

top

—

Thickness of plates

crown

3/8"

Description of longitudinal joint

weld

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

End plates in steam space: Material

Steel

Tensile strength

26/30

Thickness

29/32"

Pitch of stays 18" x 16"

How are stays secured

double nuts

Tube plates: Material

front

steel

Tensile strength

26/30

Thickness

1 1/16"

Mean pitch of stay tubes in nests

9 3/8"

Pitch across wide water spaces

13 1/2"

Girders to combustion chamber tops: Material

Steel

Tensile strength

28/32

Depth and thickness of girder

at centre

7 1/4" x 2 x 5/8"

Length as per Rule

2'-5 3/4"

Distance apart

10"

No. and pitch of stays

in each

2 x 9 1/4"

Combustion chamber plates: Material

Tensile strength

26/30

Thickness: Sides

19/32"

Back

9/16"

Top

19/32"

Bottom

7/8"

Pitch of stays to ditto: Sides

9" x 10"

Back

10" x 8 1/4"

Top

9 1/4" x 10"

Are stays fitted with nuts or riveted over

nuts fitted

Front plate at bottom: Material

Steel

Tensile strength

26/30

Thickness

1 1/16"

Lower back plate: Material

Steel

Tensile strength

26/30

Thickness

1 1/16"

Pitch of stays at wide water space

13 1/2" x 8 5/8"

Are stays fitted with nuts or riveted over

nuts fitted

Main stays: Material

Steel

Tensile strength

28/32

Diameter

At body of stay,

2 3/8"

or

Over threads

No. of threads per inch

6

Screw stays: Material

Steel

Tensile strength

26/30

Diameter

At turned off part,

1 3/8" x 1 1/2"

or

Over threads

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, or Over threads 1 5/8" x 1 1/2"
No. of threads per inch 9
Tubes: Material L.W.I External diameter { Plain 2 3/4" Stay 2 3/4" Thickness { 8.W.G. 5/16" No. of threads per inch 9
Pitch of tubes 3 3/4" x 3 3/4" Manhole compensation: Size of opening in shell plate 20" x 16" Section of compensating ring 10 1/2" x 1" No. of rivets and diameter of rivet holes 44 15/16"
Outer row rivet pitch at ends 6" 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 — 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 yes

THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.

The foregoing is a correct description,

Gundlach Manufacturer.
RESIDENT MANAGER

Dates of Survey { During progress of work in shops - - 23. Nov. 1942. 30. Dec. 1942. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - - — Total No. of visits 7

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

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

This boiler has been constructed under Special Survey in accordance with the approved plans and the requirements of the Rules. Workmanship and materials are good. For recommendation please see Rpt 4.

This boiler was ordered from Messrs The Stockton Chem. Eng. & Riley Boiler Co. Ltd. under their No. 6676.

This boiler has been securely fixed on board the vessel & safety valves adjusted to working pressure as above. For recommendation please see Rpt 4.

Survey Fee ... £ 17 : 14 : 0 When applied for, 17 DEC 1942
Travelling Expenses (if any) £ : : When received, 31 DEC 1942

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

WED. 31 MAR 1943

See Std. J.E. 33638



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