

REPORT ON BOILERS.

No. 86889

Received at London Office

-7 MAR 1931

Date of writing Report

19

When handed in at Local Office

3/3/10³¹

Port of

Newcastle-on-Tyne

No. in Survey held at
Reg. Book.

Halsend-on-Tyne

Date, First Survey

5 Feb

Last Survey

2 March 1931

(Number of Visits

15)

Tons {
Gross
Net

Master

Built at

Newcastle

By whom built

Northumberland Works

Yard No.

When built

1922

Engines made at

Newcastle

By whom made

North Eastern W & C Ltd

Engine No.

When made

1928

Boilers made at

do

By whom made

do

do

Boiler No.

When made

1922

Nominal Horse Power

568

Owners

Moore Line Ltd.

Port belonging to

London.

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

Manufacturers of Steel

Fitting of Superheaters see reverse side.

(Letter for Record

Total Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Area of each set of valves per boiler {
per Rule
as fitted

Pressure to which they are adjusted

Are they fitted with easing gear

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

Is the bottom of the boiler insulated

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams {
end
inter.

long. seams

Diameter of rivet holes in {
circ. seams
long. seams

Pitch of rivets {

Percentage of strength of circ. end seams {
plate
rivetsPercentage of strength of circ. intermediate seam {
plate
rivetsPercentage of strength of longitudinal joint {
plate
rivets
combined

Working pressure of shell by Rules

Thickness of butt straps {
outer
inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part {
top
bottomThickness of plates {
crown
bottom

Description of longitudinal joint

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

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Working pressure by Rules

Tube plates: Material {
front
back

Tensile strength {

Thickness {

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure {
front
back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

at centre

Length as per Rule

Distance apart

No. and pitch of stays

in each

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Diameter {
At body of stay,
or
Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter {
At turned off part,
or
Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules ☐ Are the stays drilled at the outer ends ☐ Margin stays: Diameter ☐ { At turned off part, or Over threads

No. of threads per inch ☐ Area supported by each stay ☐ Working pressure by Rules ☐

Tubes: Material ☐ External diameter ☐ { Plain Stay Thickness ☐ No. of threads per inch ☐

Pitch of tubes ☐ Working pressure by Rules ☐ Manhole compensation: Size of opening in shell plate ☐ Section of compensating ring ☐ No. of rivets and diameter of rivet holes ☐

Outer row rivet pitch at ends ☐ Depth of flange if manhole flanged ☐ 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 ☐ Working pressure by Rules ☐ Thickness of crown ☐ No. and diameter of stays ☐ Inner radius of crown ☐ Working pressure by Rules ☐

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 ☐ Yalby Steel + Weldless Steel Tube Corp.
Steel castings ☐ Nottingham Steel Coy. Ltd.

Number of elements ☐ 148 Material of tubes ☐ Solid drawn steel Internal diameter and thickness of tubes ☐ 15" x 2.5" in thk

Material of headers ☐ Wrought steel Tensile strength ☐ 26 to 30 tons Thickness ☐ 1" Can the superheater be shut off and the boiler be worked separately ☐ No Is a safety valve fitted to every part of the superheater which can be shut off from the boiler ☐ Yes

Area of each safety valve ☐ 3.1416. Are the safety valves fitted with easing gear ☐ Yes Working pressure as per Rules ☐ 180 lbs sq" Pressure to which the safety valves are adjusted ☐ 185 lbs sq" Hydraulic test pressure: tubes ☐ 1500 lbs sq" and after assembly in place ☐ 450 lbs sq" Are drain cocks or valves fitted to free the superheater from water where necessary ☐ Yes.

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with ☒

The foregoing is a correct description, ☒

Manufacturer. ☐

Dates of Survey ☐ During progress of work in shops - -
while building ☐ During erection on board vessel - - -

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 ☒

If so, state Vessel's name and Report No. ☒

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

Superheaters fitted to Port & Starboard Main Boilers.
New solid drawn steel main steam & header steam pipes fitted to suit new arrangement. & tested to 5400 lbs sq".
All fittings taking superheated steam, (except engine stop valve) made of cast steel & tested to 5400 lbs sq".
Engine stop valve made of forged iron.
HP & LP piston rods & valve spindles taken to shop & ground up in lathe & refitted with new metallic packing.
HP cylinder liner & valve lines renewed in forged iron.
LP slide valve machined & refitted including face.
LP cylinder liner good.
Superheater safety valves. adjusted under steam.

Survey Fee ... £ 10-0-0

When applied for, ☒ 6 MAR 1931

Travelling Expenses (if any) £ : ✓ :

When received, ☒ 12/31 1931

William Butler
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 13 MAR 1931

TUE. 17 MAR 1931

Assigned *See Minute on*

New Cpl No 86889



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