

REPORT ON BOILERS.

No. 88158

Received at London Office

3 MAR 1932

Date of writing Report

1932

When handed in at Local Office

25/2/32

Port of

Newcastle-on-Tyne

No. in
Reg. Book.

Survey held at

Walsend Farm

Date, First Survey

15 Feb.

Last Survey

25 Feb

1932

on the

Steel S.S. "Cadillac"

(Number of Visits

17

Gross

120 1/2

Tons

Net

74 1/2

Master

Built at

Newcastle

By whom built

Palmer Cy Ltd

Yard No.

✓

When built

1914-17

Engines made at

Newcastle

By whom made

Palmer Cy Ltd

Engine No.

✓

When made

do

Boilers made at

do

By whom made

do

Boiler No.

✓

When made

do

Nominal Horse Power

793

Owners

Anglo American Oil Cy Ltd

Port belonging to

Newcastle.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Fitting of Superheaters to Main Boilers.

(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

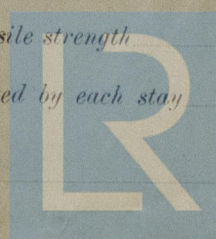
Area supported by each stay

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

If not, state whether, and when, one was

[2m 233—Copyright Ink.]

W370-0046



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Lloyd's Register
Foundation

Type of Superheater *North Eastern Smokestack Manufacturers of* Tubes *Weldless Steel tube City*
groups The Frodingham Steel Coy.
 Number of elements *352* Material of tubes *Solid Drawn Steel* Internal diameter and thickness of tubes *14 1/4 in. x 3/8 in. thick*
 Material of headers *Wrought steel* Tensile strength *26 to 30 tons* Thickness *1 1/2"* Can the superheater be shut off and
 the boiler be worked separately *yes* 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 *3.14 sq. ft.* Are the safety valves fitted with casing gear *yes* Working pressure as per
 Rules *220 lbs.* Pressure to which the safety valves are adjusted *225 lbs. per sq. in.* Hydraulic test pressure
 tubes *1500 lbs.* *groups castings pipes* *660 lbs.* and after assembly in place *550 lbs.* 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

<i>Dates</i> <i>of Survey</i> <i>while</i> <i>building</i>	{	<i>During progress of</i> <i>work in shops - -</i>
		<i>During erection on</i> <i>board vessel - - -</i>

Are the approved plans of boiler and superheater forwarded herewith
(If not state date of approval.)

Total No. of visits

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

Survey Fee	£	100	:	10	:	10	When applied for,	192
Travelling Expenses (if any)	£	10	:	10	:	10	:	10	When received,	192

192
William Butler. H.C. Fowler
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 15 MAR 1932

FRI. 22 JUL 1932
FRI. 9 DEC 1932

Assigned