

Rpt. 5.

# REPORT ON BOILERS.

No. 76833

Received at London Office SAT. 23. JUN. 1923  
NEWCASTLE-ON-TYNE

Date of writing Report

19

When handed in at Local Office

20/6/1023 Port of

No. in Survey held at Newcastle

Date, First Survey 2<sup>nd</sup> Sept 1921 Last Survey 19<sup>th</sup> June 1923

Reg. Book.

(Number of Visits)

Gross

Tons

Net

69051 on the Steel & OILFIELD

Master

Built at Newcastle

By whom built Tyne Iron Shipbuilding Co. Ltd.

When built 1923

Engines made at Newcastle

By whom made Wallsend Shipway & Eng. Co. Ltd.

When made 1923

Boilers made at Newcastle

By whom made do.

When made 1923

Boilers made at Stockholm

Owners The S. & Co. Ltd. No 4573

Registered Horse Power

Owners Northern Petroleum Tank & S. Co. Ltd.

Port belonging to Newcastle

and diameter of MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Letter for record

Total Heating Surface of Boilers 1237 sq ft

Is forced draft fitted No

No. and Description of

Boilers One S. E. Cyl.

Working Pressure 120 lbs

Date of test 21.2.22

No. of Certificate 6264

Can each boiler be worked separately

Area of fire grate in each boiler Oil burning

No. and Description of

safety valves to each boiler Two Spring-loaded

Area of each valve 7.06 sq in

Pressure to which they are adjusted 125 lbs

Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

(N.R. fitted)

Smallest distance between boilers

uptakes and bunkers

15 in

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

Working pressure of shell by

rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each

boiler

Material

Outside diameter

Length of plain part

Thickness of plates

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at

smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space: Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide

water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

under at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

UPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Made at

By whom made

When made

Where fixed

Working pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Fire grate area

Description of safety valves

No. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

length

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

up of plating

Per centage of strength of joint

Rivets

Working pressure of shell by rules

Thickness of shell crown plates

radius of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

thickness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

ates

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

thickness of water tubes

The foregoing is a correct description,

Manufacturer.

Dates { During progress of work in shops - - -  
Survey while { During erection on board vessel - - -  
building { Total No. of visits

See Machinery Report

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

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Lloyd's Register

01294-011303-0081



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

This Boiler has been efficiently installed and fastened in the forenoon decks of this vessel. Its safety valves were adjusted under steam to their working pressure -  
Please see Middlesbrough report No. 11222

The amount of Entry Fee .. £	:	When applied for.
Special .. .. . £	:	.....19.....
Donkey Boiler Fee .. . £	:	When received.
Travelling Expenses (if any) £	:	.....19.....

Committee's Minute FRI 29 JUN 1923

Assigned

*R. Lee Ames*

Engineer Surveyor to Lloyd's Register of Shipping



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Lloyd's Register  
Foundation

Rpt. 5a

Date of writing

No. in

Reg. Book

89051

Master

Engines m

Boilers m

Registered

MULTI

(Letter for

Boilers

No. of Ce

safety valv

Are they fi

Smallest d

Material of

Descrip. of

Lap of pla

rules 1

boiler 2

Description

plates: Ma

Top 9x8

smallest pa

Pitch of sto

Area suppo

Lower back

Pitch of tub

water space

girder at ce

Working pr

Diameter

Pitch of rive

SUPERHE

Date of Test

Diameter of S

Dates of Survey while building

GENERA

Survey: with

Survey F

Travelling

Committe

Assigned

Certificate (if required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)