

REPORT ON BOILERS.

No. 86110

Received at London Office

26 AUG 1930

Date of writing Report

192

When handed in at Local Office

23.8. 1930

Port of

NEWCASTLE-ON-TYNE

No. in
Reg. Book

Survey held at

Scotswood

Date, First Survey

13 Nov 129

Last Survey

18 Aug

1930

75894 on the

M.V. "KIM"

(Number of Visits

Gross

6074

Tons

Net

3575

Master

Built at

Walker.

By whom built

S.W.G. Armstrong Whitworth & Co. Ltd

Yard No.

1062

When built

1930.

Engines made at

Scotswood

By whom made

Messrs S.W.G. Armstrong Whitworth & Co. Ltd

Engine No.

89.

When made

1930.

Boilers made at

Scotswood

By whom made

Messrs S.W.G. Armstrong Whitworth & Co. Ltd

Boiler No.

11593.

When made

1930.

Nominal Horse Power

583.

Owners

Soerre Sturlung

Port belonging to

Bergen.

MANOEUVRING AIR RECEIVERS.

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

Manufacturers of Steel

Messrs Gutehoffnungshutte Oberhausen.

(Letter for Record

✓

CAPACITY OF AIR RECEIVERS

400 cu ft.

Is forced draught fitted

✓

Coal or Oil fired

✓

No. and Description of Boilers

Two Riveted Air Receivers

Working Pressure

425 1/10"

Tested by hydraulic pressure to

625 1/10"

Date of test

2.6.30

No. of Certificate

322543226

Can each boiler be worked separately

✓

Area of Firegrate in each Boiler

✓

No. and Description of safety valves to each boiler

2. Spring loaded.

Area of each set of valves per boiler

per Rule

as fitted

88 sq in

Pressure to which they are adjusted

425 1/10"

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

RECEIVERS

4'-6"

Length

11'-6"

Shell plates: Material

Steel

Tensile strength

29-33 tons.

Thickness

7/8"

Are the shell plates welded or flanged

No.

Description of riveting: circ. seams

end

D.R. lat

long. seams

T.R. Double Butt Straps

Diameter of rivet holes in

circ. seams

long. seams

1 1/8"

1"

Pitch of rivets

3 1/4"

6 3/32"

Percentage of strength of circ. end seams

plate

65.3%

rivets

55.7%

Percentage of strength of circ. intermediate seam

plate

✓

Percentage of strength of longitudinal joint

plate

85.6%

rivets

97.0%

combined

90.3%

Working pressure of shell by Rules

434.7 1/10"

Thickness of butt straps

outer

inner

1 1/10"

1 3/16"

No. and Description of Furnaces in each Boiler

Material

✓

Tensile strength

Smallest outside diameter

Length of plain part

top

bottom

✓

Thickness 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

Steel

Tensile strength

26-30 tons

Thickness

F 1 1/4" B 1 3/8"

Radius

8'-7 1/2"

How are stays secured

✓

Working pressure by Rules

430.3 1/10"

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

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Foundation

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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 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 Working pressure as per
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure
tubes 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

FOR The foregoing is a correct description,
SIR W. G. WHITWORTH & COMPANY (ENGINEERS) LIMITED Manufacturer

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Receivers have been built under
Special Survey and in accordance with the Society's Rules & approved plan.
The materials & workmanship are sound and good. The safety valves were
adjusted to the approved working pressure.

Survey Fee ... £ For Fee See: Inchy Report
Travelling Expenses (if any) £ When applied for, 192
When received, 192

L. Decker.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 2 SEP 1930

Assigned See F.E. Rpt.