

REPORT ON BOILERS.

No. 85779

Received at London Office 26 MAY 1930

NEWCASTLE-ON-TYNE

Date of writing Report

19

When handed in at Local Office

23rd May 1930. Port of

No. in Survey held at
Reg. Book.

Scotswood

Date, First Survey

8 Oct. 1929

Last Survey

16 May

1930

(Number of Visits

Gross 6121

Tons

Net 3570

40215 on the

M.V. "EVINA"

Master

Built at

Walker

By whom built

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

Card No. 1060.

When built 1930

Engines made at

Scotswood

By whom made

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

Engine No. 87.

When made 1930

Boilers made at

Scotswood

By whom made

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

Boiler No. 87.

When made 1930

Nominal Horse Power

583.

Owners

Hansen Langen

Port belonging to

KRISTIANSAND.

MANOEUVRING AIR RECEIVERS.

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

Manufacturers of Steel Tubes Gutehoffnungshütte. Oberhausen.

(Letter for Record ☒)

CAPACITY OF AIR RECEIVER

200 cu ft (each).

Is forced draught fitted ☒Coal or Oil fired ☒

Total Heating Surface of Boilers

Two Riveted Air Receivers.

Working Pressure 425 lb/sq. in.

No. and Description of Boilers

Tested by hydraulic pressure to

625 lb/sq. in.

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

88 sq. ins.

Pressure to which they are adjusted

425 lb/sq. in.

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

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
inter.

D. R. Cap

long. seams

T.R. Double Butt Straps

Diameter of rivet holes in

{ circ. seams
long. seams

1 1/8"

Pitch of rivets

{ 3 1/4"
6 3/4"

Percentage of strength of circ. end seams

{ plate
rivets65.3%
55.7%
85.6%

Percentage of strength of circ. intermediate seam

{ plate
rivets

Percentage of strength of longitudinal joint

{ rivets
combined97%
90.3%

Working pressure of shell by Rules

434.7 lb/sq. in.

Thickness of butt straps

{ outer
inner1 1/16"
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
bottomDescription 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" 8 1/8"

Pitch of stays Radius.

How are stays secured ☒

Working pressure by Rules

430.3 lb/sq. in.

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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