

Newcastle-on-Tyne No. 98606

REPORT ON BOILERS.

No. 61999

Writing Report

19

When handed in at Local Office

6-2-40

Received at London Office

FEB -7 1940

Port of Glasgow

Survey held at

Annan

Date, First Survey

1939 Nov. 10

Last Survey

2-2-

1940

(Number of Visits 5)

Gross 9847

Net 3906

on the TWIN SC. M/V. PORT NAPIER

Newcastle

By whom built

Swan Hunter & Wigham Richardson Ltd

Yard No.

1569

When built

1940

made at

Annan

By whom made

Lochman & Co Annan Ltd

Boiler No.

14444

When made

1940

Commercially known as

Donkey

Port belonging to

London

GENERAL DONKEY BOILER—

No. one

Description Lochman Waste Heat

Manufacturers of steel

Lochman Ltd

as above

By whom made

When made

Where fixed

Working pressure 105

hydraulic pressure to

208

Date of test

2-2-40

No. of Certificate

20518

Fire grate area

no grate

Description of safety valves

Enclosed spring

safety valves

2

Area of each

1.760

Pressure to which they are adjusted

If fitted with easing gear

yes

If steam from main boilers can

donkey boiler

Diameter of donkey boiler

4'-0"

Length

8'-3"

Material of shell plates

S

Thickness

15 3/32"

tensile strength

28-32 tons

Description of riveting long. seams

WR Lap

Diameter of rivet holes

23/32"

Whether punched or

rolled

yes

Pitch of rivets

2-32" 2 1/4" 2 5/16"

Lap of plating

3 3/4"

Per centage of strength of joint

76.6

Rivets

68.05

Working pressure of shell by

plates

137

Thickness of shell crown plates

3/4"

Radius of do.

4'-0"

No. of stays to do.

-

Diameter of stays

Diameter of

Top no furnace

Bottom

Length of furnace

-

Thickness of furnace side plates

-

Description of joint

Working

of furnace by rules

-

Thickness of Ogee ring

-

Working pressure of Ogee ring by rules

-

Thickness of boiler furnace

plates

19 3/32"

Radius of do.

4'-0"

Stayed by

disks

Diameter of uptake

-

Thickness of uptake

Thickness of tube plates

front 2 1/16"

back 3/32"

Mean pitch of stay tubes in nest

8.08"

Pitch in outer vertical rows

5 1/4"

of tube holes

FRONT

stay 1 1/16"

plain 1 1/16"

BACK

stay 1 1/2"

plain 1 1/2"

Working pressure of tube plates by rules

F122

B170

Tubes: Material

steel

diameter

stay 1 1/2"

plain 1 1/2"

Thickness

stay 1 1/2"

plain 1 1/2"

No. of threads per inch

9

Pitch of tubes

2 7/8" x 2 7/8"

pressure by rules

290 lbs

Manhole compensation; Size of opening in shell plate

16' x 12'

Section of compensating

plates

used

No. of rivets and diameter of rivet holes

-

Outer row pitch at ends

-

FOR COCOTRA The foregoing is a correct description,

W. L. G. K.

Manufacturer

WORKS MANAGER

During progress of

work in shops

1939 Nov. 10, 20, 1940 Jan. 11, 18, Feb. 1.

Drawing No.

25182

During erection on

board vessel

-

Total No. of visits

5

Is the approved plan of boiler forwarded herewith

yes

GENERAL REMARKS

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

materials and workmanship are good.

The boiler has been constructed under special survey.

The boiler will be sent to Newcastle to be fitted in the vessel.

Nwc. 20/6/40

This Exhaust Gas Waste Heat Boiler is fixed in the E.R. Casing at its forward end on platform on level of main or upper deck.

The Safety Valves were adjusted under Air Pressure to 105 lbs per sq inch as sufficient heat was not available for Steam before vessel left the Tyne.

A. Watt

Nwc/Tyne.

Key Fee

...

£ 4 : 4 :

When applied for

...

19

Selling Expenses (if any) £

:

When received

...

19

MONTHLY ACCOUNT

Committee's Minute

GLASGOW = 6 FEB 1939

Transmitted

TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 12 JUL 1940

See

Nwc!

20/6/40

Lloyd's Register Foundation

W71-0051