

REPORT ON BOILERS.

No. 101904

Received at London Office

16 Oct. 1939

t. 5a.

of writing Report

Oct. 12th 1939

When handed in at Local Office

Oct. 12th 1939

Port of

London.

Survey held at

Hings Langley.

Date, First Survey

3/1/39.

Last Survey

6th July 1939.

(Number of Visits FIVE)

Gross 5062

Net 2939.

on the

M/V. HAV.

Built at

Newcastle

By whom built

Swan Hunter & Co. Ltd.

No. 1567

When built

1939.

made at

Newcastle.

By whom made

Swan Hunter & Co. Ltd.

Engine No. 1606

When made

1939.

made at

Hings Langley

By whom made

Swan Power Speciality Co.

Boiler No.

When made

1939.

inal Horse Power

Owners

A/S. H. W. Lamb & A/S. H. W. Lamb
(Helm & Stauho & Co).

Port belonging to

Oslo.

Laumont Waste Heat Boiler.

WATER TUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Headers. Appley. Frodingham, Steel Co.

Tubes. Tubes Ltd. Lillmas, Walsby Aston. (Letter for Record)

al Heating Surface of Boilers

800 sq. ft.

Is forced draught fitted

Coal or Oil fired

Exhaust Gases.

and Description of Boilers

One - Laumont Waste Heat S.B. Coil type

Working Pressure

120 lb. sq. in.

ed by hydraulic pressure to

500 lb. sq. in.

Date of test

6:7:39.

No. of Certificate

Can each boiler be worked separately

of Firegrate in each Boiler

No. and Description of safety valves to each boiler

1 - 1 1/2" dia C.I. Single Spring type
(A. Colburn & Co.)

of each set of valves per boiler

per Rule

as fitted

1.450"

Pressure to which they are adjusted

Are they fitted with easing gear

Yes.

ase of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Manufacture smallest distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

allest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

gest internal dia. of boilers

4'-1"

Length

12'-5 3/4" HEADERS.

Shell plates: Material

O.H. Steel.

Tensile strength

28/35 lb. sq. in.

ickness

0. DIA 5" BORE 3"

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

inter.

No. OF COILS 46.

Diameter of

Coil tubes

circ. seams

1.240 D.

Pitch of rivets

THICKNESS. .112"

centage of strength of circ. end seams

plate

rivets

Percentage of strength of circ. intermediate seam

plate

rivets

centage of strength of longitudinal joint

plate

rivets

combined

Working pressure of shell by Rules

tubes. 254 lb. sq. in.

ickness of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

erial

Tensile strength

Smallest outside diameter

ngth of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

ensions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

are stays secured

Working pressure by Rules

e plates: Material

front

back

Tensile strength

Thickness

n pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

lers to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

entre

Length as per Rule

Distance apart

No. and pitch of stays

ach

Working pressure by Rules

Combustion chamber plates: Material

ile strength

Thickness: Sides

Back

Top

Bottom

h of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

king pressure by Rules

Front plate at bottom: Material

Tensile strength

ickness

Lower back plate: Material

Tensile strength

Thickness

h of stays at wide water space

Are stays fitted with nuts or riveted over

er of Shippi

king Pressure

Main stays: Material

Tensile strength

eter

At body of stay,

or

Over threads.

No. of threads per inch

Area supported by each stay

king pressure by Rules

Screw stays: Material

Tensile strength

eter

At turned off part,

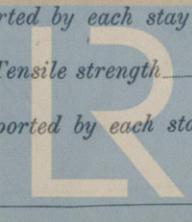
or

Over threads.

No. of threads per inch

Area supported by each stay

W174-0065



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Working pressure by Rules ✓ Are the stays drilled at the outer ends ✓ Margin stays: Diameter { At turned off part, ✓
 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
 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
 stays ✓ Inner radius of crown ✓ Working pressure by Rules ✓
 How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet holes and p
 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
 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
 Rules ✓ Pressure to which the safety valves are adjusted ✓ Hydraulic test pressur
 tubes ✓, castings ✓ and after assembly in place ✓ Are drain cocks or valves fit
 to free the superheater from water where necessary ✓

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes.
 For and on behalf of
IVOR POWER SPECIALTY CO. LTD. The foregoing is a correct description,
 J. L. Smith, MANAGING DIRECTOR, Manufacturer

Dates of Survey { During progress of work in shops - - } 1939: Jan 3, 9, Feb 2, Mar 17, July 6
 while building { During erection on board vessel - - - }
 Are the approved plans of boiler and superheater forwarded herewith Yes.
 (If not state date of approval.)
 Total No. of visits 5 (IN SHOPS)

Is this Boiler a duplicate of a previous case No. If so, state Vessel's name and Report No. ✓

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

The material & workmanship of this 100 h.p. portable boiler are satisfactory, and manufacturing at works approved by the Committee.

The construction has been carried out to approved plans & Secretary's letters.

On completion of installation on vessel, & further tests as required by the Rules, the boiler in my opinion is eligible to be classed with record of S.B. (with date).

Survey Fee £ 4 : 4 : 0 When applied for, 19 Nov 21 1939
 Travelling Expenses (if any) £ : 16 : 2. When received, 19

Committee's Minute TUE 17 OCT 1939

Assigned See Nov. No. 97822

J. L. Smith.
 Engineer Surveyor to Lloyd's Register of Shipping.



Rpt. 13.
 No. in Survey Reg. Book. 25751 on the
 Built at New
 Owners Helme
 Electrical Installa
 Is vessel fitted
 Have plans been su
 Heating.....
 has the governing
 trip switch as per
 if not compound
 arranged to run in
Positive
 test for machines
 of the generators
 near unprotected
 injury and damag
 contact YES
 are they in access
 and oil YES
 material is used f
 semi-insulating m
 Is the construction
 to pilot and earth
 side of switches.....
 Are compartment
 ammeters 2
 equaliser connect