

REPORT ON BOILERS.

No. 9699.

Received at London Office 11 SEP 1935

Writing Report 6th Sept 1935 When handed in at Local Office

193

Port of Copenhagen

Survey held at Copenhagen

Date, First Survey 26th AprilLast Survey 29th August 1935

Name of the Vessel "HÖEGH CARRIER"

(Number of Visits 10)

Gross 4906.27

Net 2964.54

Built at Copenhagen

By whom built A. B. Burmeister & Wain

Yard No. 614

When built 1935

Made at Copenhagen

By whom made A. B. Burmeister & Wain

Engine No. 2368

When made 1935

Made at Copenhagen

By whom made A. B. Burmeister & Wain

Boiler No. 1899

When made 1935

Horse Power 646

Owners Skibs & "Amstein"

Port belonging to Oslo.

TITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Tubes: Skarvsverken, Sweden, Pinks: Dansk Pors Copenhagen.

Manufacturers of Steel Plates: The Steel Corp. of Scotland, Furnace: Skovby Bridge & T. Piggott

Heating Surface of Boilers 250 sq. feet

Is forced draught fitted no

(Letter for Record -)

Description of Boilers 1 off multitubular, horizontal

Coal or Oil fired oil fired

Working Pressure 90 lbs.

Tested by hydraulic pressure to 180 lb. Date of test 4.7.35 No. of Certificate 571

Can each boiler be worked separately -

No. and Description of safety valves to each boiler

2 off direct spring loaded, 2 1/2" diam.

Pressure to which they are adjusted

9.35 lb.

Are they fitted with easing gear yes

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

Least distance between boilers or uptakes and bunkers or woodwork no woodwork

Is oil fuel carried in the double bottom under boilers yes

Least distance between shell of boiler and tank top plating 68"

Is the bottom of the boiler insulated yes

Least internal dia. of boilers 6'-6" Length 6'-6"

Shell plates: Material S. cl. Steel Tensile strength 30.8 lb./sq. in.

Are the shell plates welded or flanged no

Description of riveting: circ. seams end single rivets

Diameter of rivet holes in circ. seams 13/16"

long. seams 3/4"

Pitch of rivets 1 7/8"

Percentage of strength of circ. end seams plate 56.6

rivets 52

Percentage of strength of circ. intermediate seam plate 69

rivets 68.2

combined

Working pressure of shell by Rules 101 2/3 lb./sq. in.

No. and Description of Furnaces in each Boiler

1 off corrugated, Fox type

Tensile strength 28.9 lb./sq. in.

Smallest outside diameter 2'-4 3/4"

Thickness of plates crown 3/8"

bottom 3/8"

Description of longitudinal joint none

Working pressure of furnace by Rules 184 lb.

Plates in steam space: Material S. cl. Steel Tensile strength 28 lb./sq. in.

Thickness 1"

Pitch of stays none

Are stays secured -

Working pressure by Rules 94 2/3 lb./sq. in.

Plates: Material S. cl. Steel Tensile strength 28 lb./sq. in.

Thickness 1"

Pitch of stay tubes in nests abt 5.7"

Pitch across wide water spaces 17" x 3 3/4"

Working pressure front 106 lb.

back

Boilers to combustion chamber tops: Material -

Tensile strength -

Depth and thickness of girder

Length as per Rule -

Distance apart -

No. and pitch of stays

Working pressure by Rules -

Combustion chamber plates: Material -

Thickness: Sides -

Back -

Top -

Bottom -

Are stays fitted with nuts or riveted over

Working pressure by Rules -

Front plate at bottom: Material S. cl. Steel Tensile strength 28 lb./sq. in.

Lower back plate: Material -

Tensile strength -

Thickness -

Are stays at wide water space -

Are stays fitted with nuts or riveted over -

Working Pressure -

Main stays: Material -

Tensile strength -

At body of stay, or

No. of threads per inch -

Area supported by each stay -

Over threads

Screw stays: Material -

Tensile strength -

Working pressure by Rules -

At turned off part, or

No. of threads per inch -

Area supported by each stay -

Over threads

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W172-0157

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 *S. & W. Steel* External diameter { Plain *2 1/2"* Stay *2 1/2"* Thickness { *14 G 8* *8 in* No. of threads per inch *11*

Pitch of tubes *95 x 102 in* Working pressure by Rules *300 lbs* Manhole compensation: Size of opening in shell plate *12" x 16"* Section of compensating ring *1 1/2" x 4 1/2" x 2* No. of rivets and diameter of rivet holes *56 of 1 3/16" diam*

Outer row rivet pitch at ends *2 3/4"* Depth of flange if manhole flanged *3 1/4"* 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

Number of elements - Material of tubes - Manufacturers of { Tubes Steel castings 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 - 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 *yes.*

The foregoing is a correct description, *yes.*

BURMEISTER & WAINMAN & SKIBBY Manufacturer.

Dates of Survey { During progress of work in shops - - - *26/4-23/5-31/5-4/7-1935* Are the approved plans of boiler and superheater forwarded herewith *yes* (If not state date of approval.)

while building { During erection on board vessel - - - *23/7-5/8-15/8-20/8-28/8-29/8* Total No. of visits *10*

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

This donkey boiler has been constructed and fitted under Special Survey and in accordance with the Rules, the approved plans & the requirements contained in the Secretary's letter E dated 14th February 1935

The material used in construction has been tested as required by the Rules as per certificate produced and the workmanship is good.

An "Eureka" duplex feed pump 4 1/2" x 2 3/4" x 4" and a feed injector have been fitted.

Recommend the vessel to have notation of DB 90 lbs

Survey Fee ... *£125.00*

When applied for, *10.9.1935*

Travelling Expenses (if any) £ :

When received, *16.10.1935*

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

Committee's Minute

TUE. 17 SEP 1935

Assigned

See minute on J.E. Mahy Rpt.



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Rpt. 13.

Date of writing

No. in Reg. Book

38409

Built at

Owners

Electric

Is the Vessel

System of

Pressure

Direct or

If alternator

Has the

Generator

are they

Where in

series with

approved

Are all

short circuit

Position

in way

woodwork

are the

Earth

in metal

are

a fuse

Switch

injury

horizontal

material

is it

non-h

type

omni

"off

switch

OUTGOING

GENERAL

Are

fire

vol

1/4

do