

Rpt. 5a.

## REPORT ON BOILERS.

No.

40461.

Received at London Office

24 DEC 1929

Date of writing Report

23. 12. 1929

1929

When handed in at Local Office

23 Dec 1929

Port of

HULL.

No. in Survey held at

Hull

Date, First Survey

31 July

Last Survey

13. Dec 1929

Reg. Book.

(Number of Visits)

18.

Gross

22.99

Tons

Net

135.94

10707 on the Steam Trawler "CAPE MELVILLE"

Master

Built at

Lilly

By whom built

Cochrane &amp; Sons Ltd

Yard No.

1064

When built

1929

Engines made at

Hull

By whom made

Charles &amp; Bolmer &amp; Co Ltd

Engine No.

1379

When made

1929

Boilers made at

Hull

By whom made

do

Boiler No.

1379

When made

1929

Nominal Horse Power

96

Owners

Hudson Steam Fishing Co Ltd

Port belonging to

Hull.

## MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

W. &amp; A. Krupp's German Eisenhütten G. S.

(Letter for Record

(5)

Total Heating Surface of Boilers

1698 Sq. ft.

Is forced draught fitted

No

Coal or Oil fired

Coal

No. and Description of Boilers

One single ended return tube

Working Pressure

200 lbs.

Tested by hydraulic pressure to

350 lbs.

Date of test

22.11.29

No. of Certificate

3746.

Can each boiler be worked separately

Area of Firegrate in each Boiler

49.2 sq ft

No. and Description of safety valves to each boiler

2 Spring loaded

Area of each set of valves per boiler

per Rule

9.80

as fitted

9.80

Pressure to which they are adjusted

200 lbs

Are they fitted with easing gear

Yes

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

No

Smallest distance between boilers or uptakes and bunkers or woodwork

4"

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

No

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

14'-0"

Length

10'-8"

Shell plates: Material

Steel

Tensile strength

28/32 Tons.

Thickness

1 3/32"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

inter.

long. seams

T.R. 5/16"

Diameter of rivet holes in

circ. seams

1 3/32"

long. seams

1 3/32"

Pitch of rivets

3 3/4"

Percentage of strength of circ. end seams

plate

63.8

rivets

51.2

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate

85.03

rivets

90.8

Working pressure of shell by Rules

201 lbs.

Thickness of butt straps

outer

1 1/2"

inner

1 1/2"

No. and Description of Furnaces in each Boiler

Three plain

Material

Steel

Tensile strength

28/30 Tons.

Smallest outside diameter

41"

Length of plain part

top

76"

bottom

69"

Thickness of plates

crown

1 3/16"

bottom

Description of longitudinal joint

Welded.

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

No

Working pressure of furnace by Rules

219 lbs.

End plates in steam space: Material

Steel

Tensile strength

28/30 Tons

Thickness

1 3/16"

Pitch of stays

18"

How are stays secured

Double nuts &amp; washers

Working pressure by Rules

220 lbs.

Tube plates: Material

front

Steel

back

Tensile strength

28/30 Tons.

Thickness

1 5/16"

Pitch of stays

18"

Mean pitch of stay tubes in nests

10 9/4"

Pitch across wide water spaces

13 3/4"

Working pressure

front

211 lbs.

back

230

Girders to combustion chamber tops: Material

Steel

Tensile strength

28/32 Tons.

Depth and thickness of girder

9"

at centre

10 1/2" x 13 1/4"

Length as per Rule

36 3/16"

Distance apart

9"

No. and pitch of stays

in each

3 @ 8 3/4"

Working pressure by Rules

210 lbs.

Combustion chamber plates: Material

Steel

Tensile strength

28/30 Tons.

Thickness: Sides

3/4"

Back

2 3/32"

Top

3/4"

2 3/32"

Bottom

3/4"

Pitch of stays to ditto: Sides

9" x 8 3/4"

Back

9" x 8 1/2"

Top

9" x 8 3/4"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

230 lbs.

Front plate at bottom: Material

Steel

Tensile strength

28/30 Tons.

Thickness

1 5/16"

Lower back plate: Material

Steel

Tensile strength

28/30 Tons.

Thickness

1 5/16"

Pitch of stays at wide water space

14" x 8 3/4"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

228 lbs.

Main stays: Material

Steel

Tensile strength

28/32 Tons.

Diameter

At body of stay,

3 1/2"

or

Over threads

No. of threads per inch

8

Area supported by each stay

324 sq in

Working pressure by Rules

248 lbs.

Screw stays: Material

Steel

Tensile strength

28/30 Tons

Diameter

At turned off part,

1 7/8"

or

Over threads

No. of threads per inch

10

Area supported by each stay

78.9 sq in

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Working pressure by Rules 220 Lb. Are the stays drilled at the outer ends ho Margin stays: Diameter { At turned off part, or Over threads 1 7/8"  
No. of threads per inch 10 Area supported by each stay 94.75 sq" Working pressure by Rules 218 Lb.  
Tubes: Material Iron External diameter { Plain 3 1/2" Thickness { 5/16" No. of threads per inch 9  
Pitch of tubes 4 7/8" Working pressure by Rules 215 Lb. Manhole compensation: Size of opening in shell plate 16 x 12" Section of compensating ring 34 x 27 x 1 3/4" No. of rivets and diameter of rivet holes 32 @ 1 1/4"  
Outer row rivet pitch at ends 8 3/4" 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 \_\_\_\_\_  
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 23 inclusive for boilers been complied with \_\_\_\_\_

The foregoing is a correct description,  
For **CHARLES D. HOLMES & CO., LTD.** Manufacturer.

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey & in accordance with the approved plan & the materials & workmanship are found good. It has been satisfactorily fitted on board, tried under working conditions & its safety valves adjusted under steam at 215 Lb.

Charter on engine report  
Survey Fee £ 100 : : When applied for, 192  
Travelling Expenses (if any) £ 100 : : When received, 192

John D. Mackintosh  
Engineer, Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. '31 DEC 1929

Assigned See Rpt. attached



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Foundation

Rpt. 13.

RE

Date of writing

No. in Series  
Reg. Book.  
10707

Built at

Owners

Electric L

System of

Pressure of

Direct or A

If alternating

Has the Aut

Generators

are they over

Where more

series with ea

Are all termi

short circuit

Position of

is the ventile

if situated

are their ax

Earthing,

their respect

Main Swit

a fuse on ed

Switchboa

are they prot

woodwork on

are they cons

permanently

with mica on

and is the fr

bars

Main Swit

link

S.P.

Instrumen

Earth Tes

Switches,

Joint Box