

# REPORT ON BOILERS.

No. 41126.

Received at London Office

20 AUG 1930

16.8.30

When handed in at Local Office

Aug 16 1930

Port of

HULL.

Survey held at

Hull.

Date, First Survey

10 March

Last Survey

14 Aug 1930.

on the Steam Trawler "CAPE SPARTIVENTO"

(Number of Visits)

Gross

347.44

Tons

Net

144.70

Built at

Lilly

By whom built

Cochrane & Sons Ltd

Yard No.

1084

When built

1930

Made at

Hull

By whom made

Charles B. Holmes & Co Ltd

Engine No.

1399

When made

1930

Made at

Hull

By whom made

do

Boiler No.

1399

When made

1930

Horse Power

96

Owners

Messrs S. Fishing Co Ltd

Port belonging to

Hull.

## TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Witkowitzes, Bergan & Eisenhütten & Co.

(Letter for Record

S.

Heating Surface of Boilers

1698 sq. ft.

Is forced draught fitted

Yes

Coal or Oil fired

Coal

Description of Boilers

One single ended return tube

Working Pressure

200 lbs.

Hydraulic pressure to

350 lbs.

Date of test

17.7.30

No. of Certificate

8790

Can each boiler be worked separately

Yes

Firegrate in each Boiler

49.2 sq. ft.

No. and Description of safety valves to each boiler

2 Spring loaded.

Each set of valves per boiler

(per Rule)

9.8 sq. ft.

Pressure to which they are adjusted

200 lbs.

Are they fitted with easing gear

Yes

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

Distance between boilers or uptakes and bunkers or woodwork

7"

Is oil fuel carried in the double bottom under boilers

Yes

Distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Yes

Internal dia. of boilers

14'-0"

Length

10'-8"

Shell plates: Material

Steel

Tensile strength

28/32 Tons

1/32"

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

DR.

T.R. 28/32

Diameter of rivet holes in

circ. seams

1/32"

Pitch of rivets

3 3/4"

Percentage of strength of circ. end seams

plate

65.8

rivets

51.2

Percentage of strength of circ. intermediate seam

plate

65.8

rivets

Percentage of strength of longitudinal joint

plate

85.03

rivets

90.8

combined

88.8

Working pressure of shell by Rules

201 lbs.

No. and Description of Furnaces in each Boiler

One plain

Tensile strength

28/30 Tons.

Smallest outside diameter

41"

Thickness of plates

plate

76"

Thickness of plates

plate

13/16"

Description of longitudinal joint

Welded

Working pressure of furnace by Rules

219 lbs.

Working pressure of furnace by Rules

Material

Steel

Tensile strength

28/30 Tons

Thickness

1 3/16"

Pitch of stays

18"

Working pressure by Rules

Material

Steel

Tensile strength

28/30 Tons

Thickness

1 3/16"

Pitch of stays

18"

Working pressure by Rules

Material

Steel

Tensile strength

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Working pressure by Rules

Material

Steel

Tensile strength

28/32 Tons

Thickness

1 3/4"

Pitch of stays

18"

Working pressure by Rules

Material

Steel

Tensile strength

28/32 Tons

Thickness



Working pressure by Rules 230 Lbs Are the stays drilled at the outer ends Yes Margin stays: Diameter { At turned off part, 1 7/8" or Over threads 2 1/8"  
No. of threads per inch 10 Area supported by each stay 94.45 sq" Working pressure by Rules 218 Lbs  
Tubes: Material Iron External diameter { Plain 3 1/2" Stay 3 1/2" Thickness { 5/16" No. of threads per inch 9  
Pitch of tubes 4 7/8" Working pressure by Rules 215 Lbs Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 54" x 1 9/32" No. of rivets and diameter of rivet holes 16 @ 1 1/2"  
Outer row rivet pitch at ends 10.3" Depth of flange if manhole flanged ✓ Steam Dome: Material Steel  
Tensile strength 16/30 Tons Thickness of shell 3/4" Description of longitudinal joint SR Lap  
Diameter of rivet holes 1 1/32" Pitch of rivets 2 1/4" Percentage of strength of joint { Plate 54.0 Rivets 43.8  
Internal diameter 33" Working pressure by Rules 226 Lbs Thickness of crown 7/8" No. and diameter of stays 2 @ 2 1/4" Inner radius of crown ✓ Working pressure by Rules 226 Lbs  
How connected to shell Riveted Size of doubling plate under dome 54" x 1 9/32" Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell 1 9/32" @ 10.3"

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 \_\_\_\_\_  
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 \_\_\_\_\_  
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 22 inclusive for boilers been complied with \_\_\_\_\_

The foregoing is a correct description,

For **CHARLES D. HOLMES & CO., LTD.** Manufacturer.

Dates { During progress of work in shops - - - while building { During erection on board vessel - - -

See attached report on Machinery

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
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, and the materials & workmanship are sound & good. It has been satisfactorily fitted on board, tried under steam, & its safety valves adjusted under steam as above.

The invoices sent herewith refer also to the sister vessel 'Cape Finistere', to be reported shortly.

Chapman engine report

Survey Fee <u>£</u>	:	:	When applied for, <u>192</u>
Travelling Expenses (if any) <u>£</u>	:	:	When received, <u>192</u>

**John Mackintosh & Co. Moffatt.**  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 26 AUG 1930

Assigned

See F.E. Rpt.



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