

RETAIN

REPORT ON BOILERS.

No. 50360

24 NOV 1939

Received at London Office

HULL

Date of Report

When handed in at Local Office

Port of

No. in Reg. Book

Survey held at

Date, First Survey

28. 3. 39.

Last Survey

8. 11. 1939.

(Number of Visits)

29

Gross 591

Net 225

15937 on the SINGLE DECK STEAM TRAWLER CAPE FINISTERRE

Master, Built at, By whom built, Engines made at, Boilers made at, Nominal Horse Power, Owners, Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel, Total Heating Surface of Boilers, No. and Description of Boilers, Working Pressure

Tested by hydraulic pressure to, Date of test, No. of Certificate, Can each boiler be worked separately

Area of Firegrate in each Boiler, Area of each set of valves per boiler, Pressure to which they are adjusted, Are they fitted with easing gear

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

Smallest distance between boilers or uptakes and bunkers or woodwork, Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating, Is the bottom of the boiler insulated

Largest internal dia. of boilers, Length, Shell plates: Material, Tensile strength

Thickness, Are the shell plates welded or flanged, Description of riveting: circ. seams, inter., end, Date riveted

long. seams, Diameter of rivet holes in, Pitch of rivets

Percentage of strength of circ. end seams, Percentage of strength of circ. intermediate seam

Percentage of strength of longitudinal joint, Working pressure of shell by Rules

Thickness of butt straps, No. and Description of Furnaces in each Boiler

Material, Tensile strength, Smallest outside diameter

Length of plain part, Thickness of plates, Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom, Working pressure of furnace by Rules

End plates in steam space: Material, Tensile strength, Thickness, Pitch of stays

How are stays secured, Working pressure by Rules

Tube plates: Material, Tensile strength, Thickness

Mean pitch of stay tubes in nests, Pitch across wide water spaces, Working pressure

Girders to combustion chamber tops: Material, Tensile strength, Depth and thickness of girder

at centre, Length as per Rule, Distance apart, No. and pitch of stays

in each, Working pressure by Rules, Combustion chamber plates: Material

Tensile strength, Thickness: Sides, Back, Top, Bottom

Pitch of stays to ditto: Sides, Back, Top, Are stays fitted with nuts or riveted over

Working pressure by Rules, Front plate at bottom: Material, Tensile strength

Thickness, Lower back plate: Material, Tensile strength, Thickness

Pitch of stays at wide water space, Are stays fitted with nuts or riveted over

Working Pressure, Main stays: Material, Tensile strength

Diameter, No. of threads per inch, Area supported by each stay

Working pressure by Rules, Screw stays: Material, Tensile strength

Diameter, No. of threads per inch, Area supported by each stay

RETAIN Lloyd's Register Foundation

Working pressure by Rules 250 lbs. Are the stays drilled at the outer ends No. Margin stays: Diameter 1 1/2" At turned off part, 1 1/2" or Over threads 1 1/2" 2 1/8"

No. of threads per inch 10. Area supported by each stay 138 sq. Working pressure by Rules 229 lbs.

Tubes: Material L.W. Riv. External diameter 3 1/2" Plain 3 1/2" Thickness 5/16" No. of threads per inch 9

Pitch of tubes 4 3/4" x 4 3/4" Working pressure by Rules 260 lbs. 230 lbs. Manhole compensation: Size of opening in shell plate 16 x 12" Section of compensating ring 4-11 1/4" x 1 1/2" No. of rivets and diameter of rivet holes 108 (18 @ 1 1/2")

Outer row rivet pitch at ends 10-7 1/2" Depth of flange if manhole flanged ✓ Steam Dome: Material Steel

Tensile strength 26-30 tons. Thickness of shell 3/4" Description of longitudinal joint S.R. LAP.

Diameter of rivet holes 1 1/2" Pitch of rivets 2 1/4" Percentage of strength of joint 54% Plate Rivets 43.8%

Internal diameter 2-9" Working pressure by Rules 238 lbs. Thickness of crown 1 1/2" No. and diameter of stays 2 @ 2 3/8" Inner radius of crown 4 1/2" Working pressure by Rules In man 225 lbs.

How connected to shell Single rivets Size of doubling plate under dome 4-11 1/4" x 1 1/2" Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell 36 @ 1 1/2" 5-9 3/4" P.C.

Type of Superheater Single Tube Manufacturers of Tubes The Salford Co. Ltd. Manchester Steel forgings " Steel castings Black & White St. Quinton

Number of elements 60. Material of tubes Steel Internal diameter and thickness of tubes 1 7/8" 3 mm

Material of headers Steel Tensile strength ✓ Thickness 5/8" Can the superheater be shut off and the boiler be worked separately Yes. Is a safety valve fitted to every part of the superheater which can be shut off from the boiler Yes.

Area of each safety valve 1.77 sq. Are the safety valves fitted with easing gear Yes Working pressure as per Rules 14.29 2.56 Pressure to which the safety valves are adjusted 225 lbs. Hydraulic test pressure: tubes 1000 lbs. forgings and castings 675 lbs. and after assembly in place 675 lbs. Are drain cocks or valves fitted to free the superheater from water where necessary Yes.

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes.

The foregoing is a correct description,
FOR CHARLES D. HOLMES & CO., LTD.
W.R. Evans Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1939. MAR. 28, APR. 17, MAY, 22, 12, 22, 23. Are the approved plans of boiler and superheater forwarded herewith Yes (If not state date of approval.)
During erection on board vessel -- JUN. 12, 13, 20, 27, JUL. 3, 4, 10, 20, 25, AUG. 2, 15, SEPT. 5, 5, 11, 25, 27, 29, OCT. 6, 9, 17, 27, NOV. 8. Total No. of visits 29.

Is this Boiler a duplicate of a previous case Yes. If so, state Vessel's name and Report No. S/S. "CAPE SIRETOKO"

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) S/S. "CAPE PASSARO"
THE REPORTS N° 50161 & 50266.

This Boiler has been constructed under Special License & the material & workmanship are found to be good. The Boiler has been satisfactorily installed & has been examined under working conditions & found to be in good order.

Survey Fee £ : : When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

W.R. Evans
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 1 DEC 1939
Assigned See 1/12 machy rpt.



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