

REPORT ON BOILERS.

No. 4080

Received at London Office 30 JUN 1941

Date of writing Report

19

When handed in at Local Office

19

Port of

GALVESTON

No. in Survey held at

Hamburg

Date, First Survey

Last Survey

17/4

19

Reg. Book.

See Exam at Galveston

(Number of Visits)

Tons

Gross 10044

Net 5786

33569 on the *Swedish* "M/T. SCANDINAVIA"

Master

Built at Hamburg

By whom built

Deutsche-Werft A.G. Yard No. 231

When built 1939

Engines made at

Augsburg

By whom made

M.A.N.

Engine No.

When made 1939

Boilers made at

Hamburg

By whom made

Deutsche Werft A.G.

Boiler No. 836

When made 1939

Nominal Horse Power

1170

Owners

The Lescaux Co (Norway) R/S Port belonging to

Oslo

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Made as per Steel tested as required by Rules

Manufacturers of Steel

(Letter for Record "S")

Total Heating Surface of Boilers 400 m²

Is forced draught fitted

Yes

Coal or Oil fired Oil

Working Pressure 12 Kg/cm² = 171 lb

No. and Description of Boilers 2 S.B.

Tested by hydraulic pressure to 21.5 Kg Date of test 24/10-39 No. of Certificate 758

Can each boiler be worked separately Yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

One double spring loaded

Area of each set of valves per boiler {per Rule 9340 mm² as fitted 11349

Pressure to which they are adjusted 171 lb Are they fitted with easing gear Yes

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

Boilers in
Lower O.K.

Smallest distance between boilers or uptakes and bunkers or woodwork 1120 mm

Is oil fuel carried in the double bottom under boilers

Yes

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers 4100 mm Length 2300 mm

Shell plates: Material Steel

Tensile strength 47.53 Kg/mm²

Thickness 25.5 mm Are the shell plates welded or flanged No

Description of riveting: circ. seams

end D.R. lap

long. seams T.R.D.B.S.

Diameter of rivet holes in {circ. seams 29 mm long. seams 29 u

Pitch of rivets {92.7 mm 185 mm

Percentage of strength of circ. end seams {plate rivets

Percentage of strength of circ. intermediate seam {plate rivets

Percentage of strength of longitudinal joint {plate rivets combined

Working pressure of shell by Rules

Thickness of butt straps {outer 25.5 mm inner 25.5 mm

No. and Description of Furnaces in each Boiler 3 masonry

Material O.A. Steel

Tensile strength 41-47 Kg/mm²

Smallest outside diameter 974 mm

Length of plain part {top bottom

Thickness of plates {crown 12 mm bottom

Description of longitudinal joint Lap welded

Working pressure of furnace by Rules

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

End plates in steam space: Material O.A. Steel

Tensile strength 41-47 Kg/mm²

Thickness 24 mm Pitch of stays 460 x 400 mm

How are stays secured Double nuts & riveted washers - upper row

Double washers - Lower Working pressure by Rules

Tube plates: Material {front O.A. Steel back

Tensile strength 41-47 Kg/mm²

Thickness {24 mm 22 mm

Mean pitch of stay tubes in nests 208 x 208 mm Pitch across wide water spaces 360 mm

Working pressure {front back

Girders to combustion chamber tops: Material O.A. Steel

Tensile strength 47.53 Kg/mm²

Depth and thickness of girder

at centre 200 x 12 double Length as per Rule 709 mm

Distance apart 200 mm

No. and pitch of stays

in each 2 @ 210 mm Working pressure by Rules

Combustion chamber plates: Material S.M. Steel

Tensile strength 41-47 Kg/mm² Thickness: Sides 16.5 mm Back 19 mm Top 16.5 mm Bottom 24 mm

Pitch of stays to ditto: Sides 210 x 200 mm Back 200 x 208 mm Top 210 x 200 mm Are stays fitted with nuts or riveted over riveted

Working pressure by Rules Front plate at bottom: Material

Tensile strength

Thickness 24 mm Lower back plate: Material O.A. Steel

Tensile strength 41-47 Kg/mm² Thickness 24 mm

Pitch of stays at wide water space 360 mm

Are stays fitted with nuts or riveted over nuts

Working Pressure Main stays: Material O.A. Steel

Tensile strength 41-47 Kg/mm²

Diameter {At body of stay, 72 mm Over threads 72 mm

No. of threads per inch 6

Area supported by each stay

Working pressure by Rules

Screw stays: Material O.A. Steel

Tensile strength 41-47 Kg/mm²

Diameter {At turned off part, 35.38 mm Over threads 39.0 mm

No. of threads per inch 9

Area supported by each stay

Working pressure by Rules _____ Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 38.38 mm. or Over threads 42 mm. }
No. of threads per inch 9 Area supported by each stay - Working pressure by Rules _____
Tubes: Material SA Steel External diameter { Plain 76 Stay 76 } Thickness { 3.45 mm 8.11 mm } No. of threads per inch 9
Pitch of tubes 104 x 104 mm. Working pressure by Rules _____ Manhole compensation: Size of opening in shell plate 320 x 425 mm. Section of compensating ring 265 x 2 x 25.5 mm. No. of rivets and diameter of rivet holes 28 @ 29 mm.
Outer row rivet pitch at ends 175 mm Depth of flange if manhole flanged - Steam Dome: Material SA Steel oxy acetylene welded & riveted
Tensile strength 41-47 kg/mm² Thickness of shell 14 mm. Description of longitudinal joint riveted butt straps.
Diameter of rivet holes 26 mm. Pitch of rivets 84 mm Percentage of strength of joint { Plate Rivets }
Internal diameter 900 mm Working pressure by Rules _____ Thickness of crown 16 mm No. and diameter of stays none Inner radius of crown 420 mm Working pressure by Rules _____
How connected to shell riveted angle Size of doubling plate under dome Doubling only in way of manhole Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell 29 mm @ 200 mm.

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,

Manufacturer. _____

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

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. "Nueva Granada" Ham. Rpt 2

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

Galveston, Apr. 1941 These boilers have been efficiently installed & fixed in the vessel, generally examined, and particulars so far as seen found in accordance with this form & in accordance with the rules. Workmanship & materials as seen are satisfactory. Safety valves observed lifting at working pressure.

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

Committee's Minute

TUE. 29 JUL 1941

Assigned

See Gal. J.E. 4080

Engineer Surveyor to Lloyd's Register of Shipping.
Jim Kenne (Labr.)



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Foundation