

REPORT ON BOILERS.

BOX CASED
No. 4521

Received at London Office 18 APR 1935

Date of writing Report 12/4 1935 When handed in at Local Office 12/4 1935 Port of Gales

opening in No. in Survey held at Sandefjord Date, First Survey 1911 Last Survey 29/1 1935

1837 on the Tug Se. 4 bunk. 'H.T. NIELSEN ALONJO' (Number of Visits 3) Tons Gross 9341 Net 8858

Master Built at Glasgow By whom built C. Connell & Co. Yard No. When built 1900

diameter Engines made at Glasgow By whom made Thomson & Jackson Engine No. When made 1900

Boilers made at Berlin By whom made Rust Hartman Boiler No. When made 1926

s and pits Owners Husefagnesh. Tolares Port belonging to Larvik

nominal Horse Power

Whale oil

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record)

Pressure as per Heating Surface of Boilers Is forced draught fitted Coal or Oil fired Working Pressure 45 lb.

t pressure, and Description of Boilers 6 Filling tanks for whale oil boilers

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

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler are single spring loaded

Area of each set of valves per boiler per Rule as fitted 11.4 cm² Pressure to which they are adjusted Are they fitted with easing gear

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

Manufacturers of Steel 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 2000 mm Length 1600 mm Shell plates: Material S.M. steel Tensile strength 42-50 kg

Thickness 10 mm Are the shell plates welded or flanged and flange Description of riveting: circ. seams end S.R. overlap inter. 53 mm

g. seams 7.6 mm Diameter of rivet holes in circ. seams 21 mm Pitch of rivets 70 mm

Percentage of strength of circ. end seams plate 60.4 rivets 48.5 Percentage of strength of circ. intermediate seam plate rivets

Percentage of strength of longitudinal joint plate 92.4 rivets 73.4 combined

Working pressure of shell by Rules 6.7 kg/cm²

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

Material Tensile strength Smallest outside diameter

Length of plain part top bottom Thickness of plates crown bottom Description of longitudinal joint

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

and plates in steam space: Material S.M. steel Tensile strength 42-50 kg Thickness 15 mm Pitch of stays

How are stays secured Rished and Rod. 2800 mm Working pressure by Rules 4.56 kg/cm²

Boiler plates: Material front back Tensile strength Thickness

Unpitch of stay tubes in nests Pitch across wide water spaces Working pressure front back

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

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

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

Shipping Pressure Main stays: Material Tensile strength

meter At body of stay, No. of threads per inch Area supported by each stay

Over threads

Working pressure by Rules Screw stays: Material Tensile strength

meter At turned off part, No. of threads per inch Area supported by each stay

Over threads

W107-0049

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 External diameter { Plain Stay Thickness { No. of threads per inch

Pitch of tubes Working pressure by Rules Manhole compensation: Size of opening in shell plate Section of compensating ring No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends 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

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,

Manufacture

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

16/1, 28/1 & 29/1.35

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

Total No. of visits 3

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. "Viking", 4419.

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

These fitting vessels for whole oil apparatus were constructed at Berlin by Rich. Hachmann, and the owner states that the material used has been tested by Gen. Lloyd's Surveyors. The boilers were now examined and the results noted. The workmanship appears to be good.

Survey Fee ... £ : : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

Perforated

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

WED. 8 MAY 1935

TUE. 8 OCT 1935

Assigned



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