

REPORT ON BOILERS.

No. 4474.

Received at London Office 18 APR 1935

Date of writing Report 11/1 1935 When handed in at Local Office 11/1 1935 Port of Oslo

No. in Survey held at Oslo Date, First Survey 11/12-1924 Last Survey 7/1 1935

81638 on the Tami Se. 4 Mast "N.T. NIELSEN-ALONSO" (Number of Visits 4) Tons {Gross 9341 Net 5558}

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

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

Boilers made at Glasgow By whom made Dunsmuir & Jackson Boiler No. When made 1900

Whale oil boiler made at Oslo, by Kjosner Bryg, 1935 Nominal Horse Power 690 Owners Hvalfangselv. Tolarns af. Port belonging to Larvik

Whale oil boiler

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Apply. Frodingham Steel Co. Ltd. Vukovic Manganese Steel & Iron Corp. (Letter for Record)

Total Heating Surface of Boilers Is forced draught fitted Coal or Oil fired

No. and Description of Boilers 1 whale oil boiler with rotating drum Working Pressure 60 lbs

Tested by hydraulic pressure to 120 lbs Date of test 7.1.35 No. of Certificate Can each boiler be worked separately

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

Area of each set of valves per boiler {per Rule as fitted 2.24 sq. Pressure to which they are adjusted Are they fitted with easing gear 4/20

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 2600 mm Length 7015 mm Shell plates: Material steel Tensile strength 44-55

Thickness 13 mm Are the shell plates welded or flanged and fl. flanged Description of riveting: circ. seams {end S.R. Lap inter. S.R. single strap

Long. seams D.R. single strap Diameter of rivet holes in {circ. seams 23.5 mm long. seams 23.5 mm Pitch of rivets {69.3 mm 75.2 mm

Percentage of strength of circ. end seams {plate 61. rivets 41.5 Percentage of strength of circ. intermediate seam {plate 61. rivets 41.5

Percentage of strength of longitudinal joint {plate 68.6 rivets 60.4 combined Working pressure of shell by Rules 6.3 kg. cm²

Thickness of butt straps {outer 15 mm 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

Head plates in steam space: Material steel Tensile strength 26-30 Thickness 25 mm Pitch of stays

How are stays secured dished end, radius 3300 mm Working pressure by Rules 6.43 kg. cm²

Side plates: Material {front back Tensile strength Thickness

Span pitch of stay tubes in nests Pitch across wide water spaces Working pressure {front back

Orders 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

Working Pressure Main stays: Material Tensile strength

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

Working pressure by Rules Screw stays: Material Tensile strength

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



W107-0045

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 _____

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 _____

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 _____

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 _____

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, _____

Dates of Survey { During progress of work in shops - - } 11/12, 27/12, 29/12-1934 and 7/1.35 Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) 29/12.34

while building { During erection on board vessel - - - } _____ Total No. of visits 4.

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. Ms. Lancing Vol. rep. 4348

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

This boiler was examined during construction and was constructed in accordance with approved plans. The steel material supplied by approved works and tested by the Society's Surveyors. The workmanship is good. The boiler was tested on completion by hydraulic pressure to 120 lbs per sq inch and found in order.

The boiler was marked: R. LLOYDSTEST
120 LBS.
W.P. 60 LBS.
7.1.35.
P.B.R.

Survey Fee Rs. 40 : When applied for, 11/1 1935

Travelling Expenses (if any) Rs. 6. : When received, 22/2/35

Pergin Koli
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute WED. 8 MAY 1935 TUE. 8 OCT 1935

Assigned _____

