

## REPORT ON BOILERS.

No. 434

26 NOV 1958

- 2 OCT 1958

Received at London Office

Date of writing Report 28.7. 19 58 When handed in at Local Office 19 Port of BIRMINGHAM

No. in Survey held at TIPTON. Date, First Survey 14.4.58. Last Survey 28.7.58. 19  
Reg. Book.

on the Yard No. 150 (Number of Visits 14) Tons Gross Net

Built at NAKSKOV By whom built Nakskov Skibsvaerft Yard No. 150 When built

Engines made at By whom made Engine No. When made

Boilers made at By whom made Boiler No. When made

Owners Port belonging to

## VERTICAL BOILER.

Made at Tipton By whom made Wrights Forge &amp; Eng. Co. Ltd. Boiler No. J.2024 When made 1958 Where fixed

Manufacturers of Steel Colvilles

Total Heating Surface of each Boiler 3117 square feet. Is forced draught fitted - Coal or Oil fired OF or EG

No. and Description of Boilers One Spanner Swirlyflo Alternative Purpose Type. Working Pressure 170 lbs/sq. inch.

Tested by hydraulic pressure to 305 lbs/sq. inch. Date of test 28.7.58. No. of Certificate 391

Area of fire grate in each Boiler - No. and description of safety valves to each boiler -

Area of each set of valves per boiler { per Rule Pressure to which they are adjusted - Are they fitted with easing gear -

State whether steam from main boilers can enter the donkey boiler - Smallest distance between boiler or uptake and bunkers

or woodwork - Is oil fuel carried in the double bottom under boiler - Smallest distance between base of boiler and tank top plating

- Is the base of the boiler insulated - Largest internal dia. of boiler 9'-4 1/2" Height 20'-5 1/8"

Shell plates: Material Steel Tensile strength 28/32 TT Thickness 3/4"

Are the shell plates welded or flanged welded If fusion welded, state name of welding firm Wrights Forge &amp; Eng. Co. Ltd, Tipton.

Have all the requirements of the Rules for Class I vessels been complied with see B'ham Cert. Description of riveting: circ. seams { end inter

long. seams - Dia. of rivet holes in { circ. seams Pitch of rivets { Thickness of butt straps { outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Flat Material Steel Tensile strength 26/30 TT Thickness 7/8"

Radius - Description of Furnace: Plain, spherical, or dished crown Plain Material Steel

Tensile strength 26/30 TT Thickness 7/8" External diameter { top 8'-5" Length as per Rule -

Pitch of support stays circumferentially - and vertically - Are stays fitted with nuts or riveted over -

Diameter of stays over thread - Radius of spherical or dished furnace crown -

Thickness of Ogee Ring - Diameter as per Rule { D d

Combustion Chamber: Material - Tensile strength - Thickness of top plate -

Radius if dished - Thickness of back plate - Diameter if circular -

Length as per Rule - Pitch of stays -

Are stays fitted with nuts or riveted over - Diameter of stays over thread -

Tube Plates: Material { Top Steel Tensile strength { 26/30 TT Thickness { 7/8" Mean pitch of stay tubes in nests 11.1/2"  
{ Bot. Steel Tensile strength { 26/30 TT Thickness { 7/8"If comprising shell, dia. as per Rule { front Pitch in outer vertical rows { Dia. of tube holes TOP stay 2" BOT stay 2"  
{ back plain 2" plain 2 1/16"

Is each alternate tube in outer vertical rows a stay tube No

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 -

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Foundation



Crown Stays: Material - Tensile strength - Diameter { at body of stay, - or over threads -

No. of threads per inch - Screw Stays: Material - Tensile strength -

Diameter { at turned off part, - or over threads - No. of threads per inch - Are the stays drilled at the outer ends -

Tubes: Material Seamless Steel S.D. External diameter { plain, 2" stay, 2" Thickness { 9 SWG 3/8"

No. of threads per inch - Pitch of tubes 2.7/8" triangular.

Manhole Compensation: Size of opening in shell plate 18.1/2" x 14.1/2" Section of compensating ring 4.1/2" x 1.1/4" No. of rivets and diameter of rivet holes - Outer row rivet pitch at ends - Depth of flange if manhole flanged -

Uptake: External diameter Top 6'-11.5/8" Btm. 8'-0.5/8" Thickness of uptake plate 1.5/16"

Cross Tubes: No. - External diameters - Thickness of plates -

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with No.

The foregoing is a correct description,

WRIGHT'S FORGE & ENGINEERING CO. Manufacturer.

Dates of Survey while building { During progress of work in shops - - 14.4.58 to 28.7.58. Is the approved plan of boiler forwarded herewith 5.11.57. (If not state date of approval.) During erection on board vessel - - - Total No. of visits -

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

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

This boiler has been built under Special Survey in conformity with the Society's Rules and Regulations, approved plans and Secretary's letter. Material and workmanship are good.

The Class 1 welded pressure parts were made at Messrs Wrights Forge & Eng.Co.Ltd., Tipton, Staffordshire, and are referred to in the Birmingham Certificate No.C37265 dated 16th July 1958.

The boiler has been despatched to Denmark.

Survey Fee ... £ 60.: 0. : 0. When applied for 29th Sept. 1958 v/c 2407 Travelling Expenses (if any) £ 2.: 2. : 0. When received 19

Engineer Surveyor to Lloyd's Register of Shipping.

Date FRIDAY 19 DEC 1958 Committee's Minute See Rpt. 1.