

REPORT ON BOILERS.

No. 11387.

Received at London Office 25 AUG 1945

Date of writing Report 29th November 41 When handed in at Local Office 19

Port of Copenhagen

No. in Survey held at Copenhagen - Skatshov Date, First Survey 9th September 1939 Last Survey 3rd November 1941

on the Single Sc. Motor Tanker "HENNING MÆRSK" (Number of Visits 19) Gross 9842 Tons Net 5912

Built at Skatshov By whom built Skatshov Skibsværft Yard No. 93 When built 1941

Engines made at Copenhagen By whom made A.B. Burmeister & Wain Engine No. 3060 When made 1941

Boilers made at Copenhagen By whom made Skatshov - og Skibsværft Boiler No. 1976-77 When made 1941

Minimal Horse Power 735 Owners 7/8 of 1912 1/8 of S. Mærsk Port belonging to Copenhagen.

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Material: Victoria Works Steel. Manufacturers of Steel Tubes: Albert Blaker, Rummia, Poland, Toman, Mannesmann, Röhrenwerke, Leck, Germany. Total Heating Surface of Boilers: 150.2 m² External p.: 58.3 m² Is forced draught fitted yes

and Description of Boilers 2 off horizontal, multitubular, composite Working Pressure 180 lbs/sq. in.

Tested by hydraulic pressure to 320 lbs/sq. in. Date of test 14.12.39 No. of Certificate 655-56 Can each boiler be worked separately yes

No. and Description of safety valves to each boiler 2 off direct spring loaded, 90 lbs/sq. in. Pressure to which they are adjusted not say. Are they fitted with easing gear yes

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

Least distance between boilers or uptakes and bunkers or woodwork none Is oil fuel carried in the double bottom under boilers

Least distance between shell of boiler and tank top plating - Is the bottom of the boiler insulated yes

Test internal dia. of boilers 3850 mm Length 3180 mm Shell plates: Material S. cl. Steel Tensile strength 45.75/52 kg/mm²

Thickness 26 mm Are the shell plates welded or flanged no Description of riveting: circ. seams end 26 lbs 219-229

Seams 3 lbs riveted Diameter of rivet holes in circ. seams 29 mm long. seams 28 mm Pitch of rivets 88.24 mm

Percentage of strength of circ. end seams plate 47 rivets 47 Percentage of strength of circ. intermediate seam plate - rivets -

Percentage of strength of longitudinal joint plate 85.3 rivets 95.5 combined 89.6 Working pressure of shell by Rules 183 lbs/sq. in.

Thickness of butt straps outer 26 mm inner 26 mm No. and Description of Furnaces in each Boiler 2 off corrugated Deighton's section

Material S. cl. Steel Tensile strength 41/47 kg/mm² Smallest outside diameter 940 mm

Thickness of plates crown 13 mm bottom Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom - Working pressure of furnace by Rules 200 lbs/sq. in.

plates in steam space: Material S. cl. Steel Tensile strength 41/47 kg/mm² Thickness 27 mm Pitch of stays 350-490 mm

Are stays secured Screwed in both plate, nuts ins. - outside Working pressure by Rules 180 lbs/sq. in.

plates: Material front S. cl. Steel Tensile strength 41/47 kg/mm² Thickness 24 mm back 19 mm

Pitch of stay tubes in nests 228 mm Pitch across wide water spaces 355 mm Working pressure front 181 lbs/sq. in. back 248 lbs/sq. in.

Stays to combustion chamber tops: Material S. cl. Steel Tensile strength 44/50 kg/mm² Depth and thickness of girder

At body of stay, 2 3/4" 2 1/2" No. of threads per inch 11 Area supported by each stay 172000 mm²

Over threads 3" - 2 3/4" 2 3/4" - 2 1/2" Screw stays: Material S. cl. Steel Tensile strength 41/47 kg/mm²

Working pressure by Rules 211 1/2 lb/sq in Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, or Over threads } 1 3/4 in 4c.
No. of threads per inch 11 Area supported by each stay abt. 53000 sq in Working pressure by Rules 221 1/2 lb/sq in
Tubes: Material S.M. Steel External diameter { Plain Stay } 2 1/2 in Thickness { 1 1/2 in 3/8 in } No. of threads per inch 11
Pitch of tubes 90 x 92 in Working pressure by Rules 230 1/2 lb/sq in Manhole compensation: Size of opening 28 in
shell plate 405 x 505 in Section of compensating ring flanged No. of rivets and diameter of rivet holes 46 of 28 in
Outer row rivet pitch at ends 195 x 127 in Depth of flange if manhole flanged 88 in 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 diam. of Engine
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and of Sets
of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of { Tubes Steel forgings 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 from the boiler?
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
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure
tubes forgings and castings and after assembly in place Are drain cylinders
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 yes
The foregoing is a correct description, NAKSOV SKIBSVÆRFT
Dates of Survey { During progress of work in shops - - - } 9/9-14/9-25/9-30/9-7/10-14/10-20/10-31/10-23/11 4/12-14/12-39
while building { During erection on board vessel - - - } 18/4-20/4-30/4-7/5-17/5-19/7-27/7-40 3/11-41
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) yes
Total No. of visits 19

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.) The above 2 dunking boilers have been constructed and fitted under Special Survey in accordance with the Rules, the approved plans and the requirements contained in the Secretary's letters.

The material used in construction has been tested as required by the Rule and the workman ship is good.

Survey Fee ... £ 672.75 When applied for, 27/6 19 40
Travelling Expenses (if any) £ : : When received, 12/9 19 40
J. Langkilde Jensen
Engineer Surveyor to Lloyd's Register of

Committee's Minute FRI 1 FEB 1946
Assigned See minute on J. M.
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