

REPORT ON BOILERS.

No. 16656.

Received at London Office

Writing Report 29.10.1957 When handed in at Local Office 19. Port of Copenhagen
 Survey held at Aalborg Date, First Survey 12.3.57 Last Survey 21.9.1957
 (Number of Visits 19) Gross 8867
 Net 5253
 on the m.t. "CHARLOTTE MÆRSK"
 at Odense By whom built Odense Stålskibsværft A/S Yard No. 112 When built 1951
 Engines made at Copenhagen By whom made Burmeister & Wain A/S Engine No. 4511 When made 1951
 Boilers made at Aalborg By whom made Aalborg Værft A/S Boiler No. 1738 When made 1957
 A/S D/S Svendborg & D/S of 1912 A/S Port belonging to Fredericia

plates: Dortmund-Hörder Hüttenunion AG. Dortmund-Hörde, Phoenix-Rheinrohr AG-
 plates: Det Danske Stålvalseværk A/S, Colvilles Ltd. Glasgow. Mülheim/Ruhr.
 Stays: Det Danske Stålvalseværk A/S
 Tubes: Stewarts & Lloyd's Ltd. Corby

VERTICAL BOILER.

By whom made Aalborg Værft A/S Boiler No. 1738 When made 1957 Where fixed Aalborg
 Manufacturers of Steel see above
 Heating Surface of each Boiler 150 m² Is forced draught fitted no Coal or Oil fired exhaust gas
 and Description of Boilers 1 off vertical with vertical tube section Working Pressure 12.65 kg/cm²
 tested by hydraulic pressure to 22.5 kg/cm² Date of test 11.9.57. No. of Certificate 966
 Area of fire grate in each Boiler - No. and description of safety valves to each boiler 2 off 50 mm direct spring loaded
 Pressure of each set of valves per boiler { per Rule - Pressure to which they are adjusted 12.65 kg/cm² they fitted with easing gear yes
 { as fitted 3850 mm²
 whether steam from main boilers can enter the donkey boiler - Smallest distance between boiler or uptake and bunkers
 boiler placed
 in funnel 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 2266 mm Height 4500 mm
 plates: Material S.M. steel Tensile strength 49 kg/mm² Thickness 17 mm
 the shell plates welded or flanged welded If fusion welded, state name of welding firm Aalborg Værft A/S
 all the requirements of the Rules for Class I vessels been complied with yes Description of riveting: circ. seams { end...welded
 { inter...welded
 seams welded Dia. of rivet holes in { circ. seams - Pitch of rivets - Thickness of butt straps { outer -
 { long. seams - inner -
 Crown: Whether complete hemisphere, dished partial spherical, or flat dished Material S.M. steel Tensile strength 44 kg/mm² Thickness 20 mm
 dia. 1840 mm Description of Furnace: Plain, spherical, or dished crown - Material -
 Thickness - External diameter { top - Length as per Rule -
 { bottom -
 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 -
 if dished - Thickness of back plate - Diameter if circular -
 as per Rule - Pitch of stays -
 stays fitted with nuts or riveted over - Diameter of stays over thread -
 Plates: Material { top S.M. steel Tensile strength { 44 kg/mm² Thickness { 25 mm Mean pitch of stay tubes in nests 200 mm
 { bottom S.M. steel Tensile strength { 44 kg/mm² Thickness { 25 mm
 comprising shell, dia. as per Rule { front - Pitch in outer vertical rows { Dia. of tube holes FRONT { stay 52.5 mm Bott. stay 51 mm
 { back - plain 52.5 mm BACK { plain 51 mm
 alternate tube in outer vertical rows a stay tube no
 stays to Combustion Chamber Tops: Material - Tensile strength -
 and thickness of girder at centre - Length as per Rule -
 distance apart - No. and pitch of stays in each

all 25-11-57

Crown Stays: Material S.M. steel^v Tensile strength 47,5 kg/mm²^v Diameter { at body of stay, 75 mm^v
or
over threads.....

No. of threads per inch welded as per app. plan^v Screw Stays: Material - Tensile strength -

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

Tubes: Material S.M. steel^v External diameter { plain, 51 mm^v Thickness { 3,25 mm^v
stay, 51 mm^v 8 mm^v

No. of threads per inch plain: seal welded^v stay: welded as per app. plan^v Pitch of tubes 75 x 65 mm^v

Manhole Compensation: Size of opening in shell plate 350 x 450 mm^v Section of compensating ring 110 x 25 mm^v No. of rivets and
of rivet holes welded as per app. plan^v Outer row rivet pitch at ends - Depth of flange if manhole flanged -

Upstays External diameter 600 mm^v Thickness of upstays plate 14 mm (16 mm fitted)^v

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

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with. YES^v

The foregoing is a correct description,
AARHUS VÆRFT A/S

S. L. JENSEN

Mons.

Dates of Survey while building	During progress of work in shops - -	12/3, 21/3, 4/4, 17/4, 30/4, 13/5, 28/5, 31/5, 13/6, 4/7, 9/7, 24/7, 16/8, 30/8	Is the approved plan of boiler forwarded herewith (If not state date of approval.)	yes
	During erection on board vessel - - -	6/9, 11/9-57 17/9, 19/9, 21/9-57		
			Total No. of visits	19

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above boiler has been built under Special Survey in accordance with the Rules, the approved plan No. AQ4:20128a and the Secretary's letter dated 2nd August, 1957.

The upper- and lower parts and the down tube has been welded in accordance with the Rules for welded pressure vessels Class 1 and the x-ray films have been examined by us and found satisfactory. The routine tests have been carried out with satisfactory results.

The material used in the construction has been tested as required by the Rules and the workmanship is good.

The boiler has been installed under Special Survey, the Safety Valves adjusted under steam to 12,65 kg/cm² and accumulation test carried out as prescribed by the Rules during a trip.

Installation Kr. 200,00
Survey Fee ... Kr. 515,00
Travelling Expenses (if any) Kr. 220,00

When applied for 2/11. 57
When received 19

For M. Nielsen & self
G. Nielsen
Engineer Surveyor to Lloyd's Register of Shipping

Date THURSDAY 28 NOV 1957
Committee's Minute

