

# REPORT ON BOILERS.

No. 16656.

Received at London Office

of 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

in Book. (Number of Visits 19) Gross 8867

58 on the m.t. "CHARLOTTE MÆRSK" Tons Net 5253

at Odense By whom built Odense Stålskibsværft A/S Yard No. 112 When built 1-1951

nes made at Copenhagen By whom made Burmeister & Wain A/S Engine No. 4511 When made 1951

rs made at Aalborg By whom made Aalborg Værft A/S Boiler No. 1738 When made 1957

rs 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 m<sup>2</sup> 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/cm<sup>2</sup>

ed by hydraulic pressure to 22.5 kg/cm<sup>2</sup> Date of test 11.9.57. No. of Certificate 966

a of fire grate in each Boiler - No. and description of safety valves to each boiler 2 off 50 mm direct spring loaded

of each set of valves per boiler { per Rule - 2 Pressure to which they are adjusted 12.65 kg/cm<sup>2</sup> they fitted with easing gear yes  
as fitted 3850 mm

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

oodwork 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/mm<sup>2</sup> 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...

l Crown: Whether complete hemisphere, dished partial spherical, or flat dished Material S.M. steel Tensile strength 44 kg/mm<sup>2</sup> Thickness 20 mm

us 1840 mm Description of Furnace: Plain, spherical, or dished crown - Material -

to strength - Thickness - External diameter { top... Length as per Rule -  
bottom...

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

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

ness of Ogee Ring - Diameter as per Rule { D...  
d...

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

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

h as per Rule - Pitch of stays -

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

Plates: Material { S.M. steel Tensile strength { 44 kg/mm<sup>2</sup> Thickness { 25 mm Mean pitch of stay tubes in nests 200 mm  
S.M. steel 44 kg/mm<sup>2</sup> 25 mm

prising 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

h alternate tube in outer vertical rows a stay tube no

rs to Combustion Chamber Tops: Material - Tensile strength -

and thickness of girder at centre - Length as per Rule -

ice apart - No. and pitch of stays in each -

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Crown Stays: Material S.M. steel<sup>✓</sup> Tensile strength 47.5 kg/mm<sup>2</sup><sup>✓</sup> Diameter { at body of stay, 75 mm<sup>✓</sup>  
or  
over threads. -

No. of threads per inch welded as per app.<sup>✓</sup> plan 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<sup>✓</sup> External diameter { plain, 51 mm<sup>✓</sup>  
stay, 51 mm<sup>✓</sup> Thickness { 3.25 mm<sup>✓</sup>  
8 mm<sup>✓</sup>

No. of threads per inch stay: welded as per app. plan Pitch of tubes 75 x 65 mm<sup>✓</sup>

Manhole Compensation: Size of opening in shell plate 350 x 450 mm<sup>✓</sup> Section of compensating ring 110 x 25 mm<sup>✓</sup> No. of rivets and

of rivet holes welded as per app.<sup>✓</sup> plan Outer row rivet pitch at ends. - Depth of flange if manhole flanged. -

Upstake External diameter 600 mm<sup>✓</sup> Thickness of upstake plate 14 mm (16 mm fitted)<sup>✓</sup>

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

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with. YES<sup>✓</sup>

The foregoing is a correct description,

AARHUS VÆRFT A/S

S. K. JENSEN

M. Nielsen

Dates of Survey while building	During progress of work in shops - -	During erection on board vessel - - -	Total No. of visits
	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 6/9, 11/9-57	17/9, 19/9, 21/9-57	19

Is the approved plan of boiler forwarded herewith. YES<sup>✓</sup>  
(If not state date of approval.)

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/cm<sup>2</sup> and accumulation test carried out as prescribed by the Rules during a trip.

Installation Kr. 200,00<sup>✓</sup>

Survey Fee ... Kr. 515,00<sup>✓</sup>

Travelling Expenses (if any) Kr. 220,00<sup>✓</sup>

When applied for 2/11. 57

When received 19

For M. Nielsen & self

M. Nielsen  
Engineer Surveyor to Lloyd's Register of Shipping

Date

Committee's Minute

THURSDAY 28 NOV 1957



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