

REPORT ON BOILERS.

No. 9423.

4 SEP 1934

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Date of writing Report 18th August 1934 When handed in at Local Office 19 Port of Copenhagen

No. in Reg. Book. 52035 on the Steel Se. Motor Vessel NORA MÆRSK. Survey held at Copenhagen & Odense Date, First Survey 13th March Last Survey 15th August 1934. (Number of Visits 13.) Tons {Gross 6270.70 Net 3888.51

Built at Odense By whom built of Odense Staalvareværk Yard No. 52 When built 1934
Engines made at Copenhagen By whom made ast. Bunniske & Hainis Engine No. 2187 When made 1934
Boilers made at Copenhagen By whom made of Smith, Skjold & Thillemier Boiler No. 649 When made 1934
Owners of "Svendborg" og Dampskibsselskabet af 1912" Port belonging to Copenhagen.

RETAIN

VERTICAL DONKEY BOILER.

Made at Copenhagen By whom made of Smith, Skjold & Thillemier Boiler No. 649 When made 1934 Where fixed in the motor room

Manufacturers of Steel Plates: Colvilles Ltd. Glasgow, Tubes: Stuart & Lloyds Ltd, Rivets: Lewis Bros, Copenhagen.

Total Heating Surface of Boiler 127.5 m² {oil firing: 59 m² gas firing: 68.5 m² Is forced draught fitted no Coal or Oil fired oil & exhaust gas

No. and Description of Boilers 1 off vertical multitubular Working pressure 100 lbs / sq in

Tested by hydraulic pressure to 200 lbs / sq in Date of test 18th May 1934 No. of Certificate 553

Area of Firegrate in each Boiler as appraised 11.88 sq m No. and Description of safety valves 2 off direct spring loaded & 3" diam

Area of each set of valves per boiler as fitted 14.13 sq m Pressure to which they are adjusted 100 lbs / sq in Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler no main boiler. Smallest distance between boiler or uptake and bunkers or woodwork 950 mm

Is oil fuel carried in the double bottom under boiler yes Smallest distance between base of boiler and tank top plating 2500 mm

Is the base of the boiler insulated yes Largest internal dia. of boiler 2500 mm Height 5642 mm

Shell plates: Material S. M. Steel Tensile strength Top: 30.1 tons / sq in Thickness Top: 16 mm

Are the shell plates welded or flanged no Description of riveting: circ. seams {end single inter. single long. seams 2 lbs rivets & 2 butt straps

Dia. of rivet holes in {circ. seams 23 mm Pitch of rivets 57 mm Percentage of strength of circ. seams {plate 59.6 rivets 43.0 of Longitudinal joint {plate 77 rivets 87 combined 83

Working pressure of shell by rules 136 lbs / sq in Thickness of butt straps {outer 15 mm inner 15 mm

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat spherical Material S. M. Steel

Tensile strength 28.4 tons / sq in Thickness 20 mm Radius 2286 mm Working pressure by rules 114 lbs / sq in

Description of Furnace: Plain, spherical, or dished crown spherical Material S. M. Steel Tensile strength 29.5 tons / sq in

Thickness 18 mm External diameter {MEAN 2136 mm Length as per rule 700 mm Working pressure by rules 115 lbs / sq in

Pitch of support stays circumferentially yes and vertically yes Are stays fitted with nuts or riveted over no

Diameter of stays over thread 50 mm Radius of spherical or dished furnace crown 1000 mm Working pressure by rule 153 lbs / sq in

Thickness of Ogee Ring 50 mm Diameter as per rule {D 2500 mm d 2400 mm Working pressure by rule 100 lbs / sq in

Combustion Chamber: Material S. M. Steel Tensile strength 28.9 tons / sq in Thickness of top plate 20 mm

Radius if dished no Working pressure by rule no Thickness of back plate no Diameter if circular no

Length as per rule no Pitch of stays no Are stays fitted with nuts or riveted over no

Diameter of stays over thread no Working pressure of back plate by rules 19 lbs / sq in

Tube Plates: Material {front S. M. Steel back S. M. Steel Tensile strength 28.9 tons / sq in Thickness 20 mm Mean pitch of stay tubes in nests 371 mm

If comprising shell, Dia. as per rule {front 2480 mm back 2480 mm Pitch in outer vertical rows {380 mm Dia. of tube holes FRONT {stay 57 mm plain 37 mm BACK {stay 57 mm plain 37 mm

Is each alternate tube in outer vertical rows a stay tube yes Working pressure by rules {front 118 lbs back 118 lbs

Girders to combustion chamber tops: Material S. M. Steel Tensile strength no

Depth and thickness of girder at centre no Length as per rule no

Distance apart no No. and pitch of stays in each no Working pressure by rule no



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