

REPORT ON BOILERS.

No. 10742

DEC 10 1938

Received at London Office

Date of writing Report 29/11 1938 When handed in at Local Office 19 Port of Copenhagen

No. in Survey held at Copenhagen & Odense Date, First Survey 18th February Last Survey 24th November 1938

364 on the Single Se. Motor Vessel "HULDA MÆRSK." (Number of Visits 21) Tons ^{Gross} 5601 _{Net} 3390

Built at Odense By whom built L. Odense Staalskibsverft Yard No. 75 When built 1938

Engines made at Copenhagen By whom made apt. Bunniske, Waas & Haskin-og Skibsbyggeri Engine No. 2834 When made 1938

Boilers made at — By whom made — Boiler No. — When made —

Boilers 2 1/2" Sverdløng" of "0/5 of 1912 2/5" Port belonging to Copenhagen

VERTICAL DONKEY BOILER.

Boiler No. 717 When made 1938 Where fixed in a separate compartment in the starboard side of the engine room

By whom made L. Sverdløng & Hillerød Manufacturers of Steel Plates: Ruhrstahl A.G. Bismarckhütte, Rints: - Leuwer Bros, Leuwer.

Heating Surface of Boiler 70 m²: 755 sq feet Is forced draught fitted yes ✓ Coal or Oil fired oil ✓

Description of Boilers one of vertical, multi-tubular Working pressure 100 lbs/p. ✓

Tested by hydraulic pressure to 200 lbs/p. Date of test 27.7.38 No. of Certificate 627

Area of Firegrate in each Boiler — No. and Description of safety valves to each boiler 2 off direct spring loaded 7 1/2" diam ✓

Pressure of each set of valves per boiler per rule 5300 w/m² as fitted 8800 w/m² Pressure to which they are adjusted 100 lbs Are they fitted with easing gear yes ✓

Whether steam from main boilers can enter the donkey boiler no Smallest distance between boiler or uptake and bunkers —

Is oil fuel carried in the double bottom under boiler yes ✓ Smallest distance between base of boiler and tank top plating 12" ✓

Is the base of the boiler insulated yes ✓ Largest internal dia. of boiler 2600 w/m Height 4981 w/m

Plates: Material S. M. Steel ✓ Tensile strength 44/50 kg/mm² Thickness 13-17, 19 w/m

Are the shell plates welded or flanged no Description of riveting: circ. seams { end... single ✓ 266 rivets ✓
inter... single ✓ long. seams 266 butt straps ✓

of rivet holes in { circ. seams 205 w/m ✓ Pitch of rivets { 49 w/m ✓ Percentage of strength of circ. seams { plate 58.2 ✓ of Longitudinal joint { plate 79 ✓
long. seams 205 w/m ✓ { 98 w/m ✓ { rivets 42.3 ✓ { rivets 101 ✓
combined 91.7 ✓

Working pressure of shell by rules 7.94 kg/cm² ✓ Thickness of butt straps { outer... 13 w/m ✓
inner... — ✓

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

Working pressure by rules 41/47 kg/mm² Thickness 20 w/m ✓ Radius 2080 w/m Working pressure by rules 8.1 kg/cm² ✓

Description of Furnace: Plain, spherical, or dished crown spherical ✓ Material S. M. Steel ✓ Tensile strength 41/47 kg/mm² ✓

External diameter { top... 1860 w/m ✓ Length as per rule 760 w/m Working pressure by rules 8.7 kg/cm² ✓
bottom... 2472 w/m ✓

Are stays fitted with nuts or riveted over —

Radius of spherical or dished furnace crown — Working pressure by rule —

Thickness of stay tubes 64 w/m ✓ Diameter as per rule { D 2600 w/m ✓
a 2472 w/m ✓ Working pressure by rule —

Material — Tensile strength — Thickness of top plate —

Working pressure by rule — Thickness of back plate — Diameter if circular —

Pitch of stays — Are stays fitted with nuts or riveted over —

Working pressure of back plate by rules —

Plates: Material { front... S. M. Steel ✓ Tensile strength { 41/47 kg/mm² ✓ Thickness { 19 w/m ✓ Mean pitch of stay tubes in nests 280 w/m ✓
back... — ✓

Pitch in outer vertical rows { front... 2500 w/m ✓ Dia. of tube holes FRONT { stay... 95 w/m ✓ { stay... 89 w/m ✓
back... 200 w/m ✓ { plain... 92 w/m ✓ { plain... 89 w/m ✓

Working pressure by rules { front... 7.5 kg/cm² ✓
back... — ✓

Material — Tensile strength — Length as per rule —

No. and pitch of stays in each — Working pressure by rule —

Crown stays: Material Tensile strength Diameter at body of stay...
 No. of threads per inch Area supported by each stay Working pressure by rules
Screw stays: Material Tensile strength Diameter at turned off part...
 Area supported by each stay Working pressure by rules No. of threads per inch
Tubes: Material S. M. Steel External diameter plain 89 mm Thickness 1/4" - 6.35
 No. of threads per inch 11 Pitch of tubes 200 x 120 mm Working pressure by rules 8.5 kg/cm²
Manhole Compensation: Size of opening in shell plate 320 x 420 mm Section of compensating ring flat 20 mm thick
 of rivet holes 40 of 20.5 mm Outer row rivet pitch at ends 100 mm Depth of flange if manhole flanged
Uptake: External diameter Thickness of uptake plate
Cross Tubes: No. External diameters Thickness of plates

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes
 The foregoing is a correct description,

ARTIESELBRACKET
 SMITH, MYGIND & HUTTEMEIER
 Manufact

Dates of Survey while building During progress of work in shops - 18/2-17/3-2/4-25/4-29/4-5/5-22/5-23/5-1/6-4/7-14/7-18/7-27/7-1938 the approved plan of boiler forwarded herewith (If not state date of approval.) 16/3-38
 During erection on board vessel - 6/9-27/9-11/10-17/10-24/10-2/11-4/11-24/11-1938 Total No. of visits 21

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.) This boiler has been constructed and fitted on board the vessel under special survey in accordance with the Rules, the approved plans and the Secretary's letter. The material used in construction has been tested as required by the Rules and the workmanship is good.

Survey Fee ... Fr. 94.08 When applied for, 9.12.38
 Travelling Expenses (if any) Fr. 2.50 When received, 16.1.39

J. Langhøj
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUE 31 JAN 1939
 Assigned See FE, machy, rpl.

