

REPORT ON BOILERS.

No. 7353.

25 OCT 1926

Received at London Office

of writing Report 9/10 1926 When handed in at Local Office 19 Port of Copenhagen.

Survey held at Nakskov Date, First Survey 4/3 26. Last Survey 5/10 1926.

Book. Spm. (Number of Visits 10) Gross 5904.85 Tons Net 3636.68.

on the Ship Twin S. Motor vessel "TACOMAG."

at Nakskov By whom built M. Nakskov Skibsværft. Yard No. 28 When built 1926.

ines made at Copenhagen By whom made P. Pürmister & Søn. Engines No. 1188 When made 1926.

Boilers made at By whom made Boiler No. When made

ers 9/5 Dampskibsselsk. Orient. Port belonging to Copenhagen.

VERTICAL DONKEY BOILER.

de at Nakskov By whom made 9/5 Nakskov Skibsværft. Boiler No. 5. When made 1926. Where fixed in motor room.

Manufacturers of Steel Messrs. Henschel & Sohn, G.M.B.H., Alf. Henschelstr. 11, Flattungen a/d Ruhr.

al Heating Surface of Boiler 80 sq. ft. Is forced draught fitted No. Coal or Oil fired oil.

and Description of Boilers 1 off vertical, cross tube. Working pressure 120 lbs. per sq. in.

tested by hydraulic pressure to 230 lbs. per sq. in. Date of test 23/7 26. No. of Certificate 460.

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 1 off 2" dia, direct spring loaded.

Area of each set of valves per boiler per rule 0.89 sq. ft. as fitted 3.14 sq. ft. Pressure to which they are adjusted 120 lbs. Are they fitted with easing gear yes.

Is whether steam from main boilers can enter the donkey boiler no main boilers. Smallest distance between boiler or uptake and bunkers

woodwork No workwork. Is oil fuel carried in the double bottom under boiler yes. Smallest distance between base of boiler and tank top plating

36". Is the base of the boiler insulated No. Largest internal dia. of boiler 1400 mm. Height 3651 mm.

Shell plates: Material S. M. Steel. Tensile strength 45 kg/mm². Thickness 11.5 mm.

Are the shell plates welded or flanged No. Description of riveting: circ. seams lap. single riv. long. seams lap. 26 rivets.

Area of rivet holes in circ. seams 19 mm. Pitch of rivets 50 mm. Percentage of strength of circ. seams plate 62 rivets 39.5 of Longitudinal joint plate 68.3 rivets 66 combined.

Working pressure of shell by rules 10.4 kg/mm² = 147.6 lbs. per sq. in. Thickness of butt straps outer inner.

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

Tensile strength 43.2 kg/mm². Thickness 14 mm. Radius 13 1/2 mm. Working pressure by rules 8.9 kg/mm² = 126.5 lbs.

Description of Furnace: Plain, spherical, or dished crown dished. Material S. M. Steel. Tensile strength 42.6 kg/mm² SHELL 40.8 kg/mm².

Thickness 13 mm. External diameter top 1000 mm bottom 1120 mm Length as per rule 771 mm. Working pressure by rules 9.1 kg/mm² = 129 lbs.

Pitch of support stays circumferentially 173 mm. and vertically Are stays fitted with nuts or riveted over riveted over

Diameter of stays over thread 1 1/8". Radius of spherical or dished furnace crown 1391 mm. Working pressure by rule 8.11 kg/mm² = 115 lbs.

Thickness of Ogee Ring 16 mm. Diameter as per rule D 1407 mm d 1120 mm Working pressure by rule 5.96 kg/mm² = 84.6 lbs. per sq. in.

Combustion Chamber: Material Tensile strength Thickness of top plate

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

Length as per rule Pitch of stays Are stays fitted with nuts or riveted over

Diameter of stays over thread Working pressure of back plate by rules

Shell Plates: Material front back Tensile strength Thickness Mean pitch of stay tubes in nests

comprising shell, Dia. as per rule front back Pitch in outer vertical rows Dia. of tube holes FRONT BACK

each alternate tube in outer vertical rows a stay tube Working pressure by rules front back

Orders to combustion chamber tops: Material Tensile strength

Depth and thickness of girder at centre Length as per rule

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

Crown stays: Material ☒ Tensile strength ☒ Diameter { at body of stay, ☒ or over threads ☒

No. of threads per inch ☒ Area supported by each stay ☒ Working pressure by rules ☒

Screw stays: Material *S.M. steel* Tensile strength *44 kg/mm²* Diameter { at turned off part, ☒ or over threads *1 7/8"* No. of threads per inch *11*

Area supported by each stay ☒ Working pressure by rules ☒ Are the stays drilled at the outer ends *No.*

Tubes: Material ☒ External diameter { plain ☒ stay ☒ Thickness { ☒

No. of threads per inch ☒ Pitch of tubes ☒ Working pressure by rules ☒

Manhole Compensation: Size of opening in shell plate *279 x 381 mm* Section of compensating ring *589 x 660 x 15 mm* No. of rivets and diameter of rivet holes *44 of 19 mm* Outer row rivet pitch at ends *100 x 82 mm* Depth of flange if manhole flanged ☒

Uptake: External diameter *305 mm* Thickness of uptake plate *11.5 mm*

Cross Tubes: No. *2* External diameters { *229 mm* Thickness of plates *12.5 mm*

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with *Yes*.

The foregoing is a correct description,

AKTIESELSKABET
NAKSKOV SKIBSVÆRFT Manufacturer.
O. Nielsen

Dates of Survey { During progress of work in shops - *4/3, 17/3, 10/4, 28/4, 24/6, 23/7, 26.* Is the approved plan of boiler forwarded herewith *Yes*.
while building { During erection on board vessel - *18/8, 28/8, 21/9, 5/10, 26* (If not state date of approval.)

Total No. of visits *10.*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This donkey boiler has been built under special survey and in accordance with the approved plan (with slight amendments, as shown on the amended plan) and the Society's Rules and the Surveyor's letter 3 dated 18th December 1924. The material has been tested and examined as required by the Rules as per produced Certificates, and the workmanship is good.

The donkey boiler has been fitted on board the vessel under our supervision and to our satisfaction, and a 75 x 40 x 75 mm duplex feed pump and a feed injector have been fitted to feed the boiler.

Recommend the vessel to have notation of DB-120 lbs. in the Reg. Book.

12 = 4/4. 18. 27.
Survey Fee *2 1/2* 76. 73
Travelling Expenses (if any) £ *8* 11. 19 26

When applied for, *20. 10. 19 26*
When received, *8. 11. 19 26*

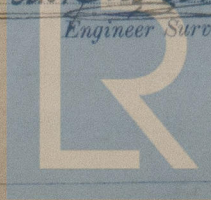
Committee's Minute

Assigned

See other Rpt

26 OCT 1926

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



Lloyd's Register
Foundation