

REPORT ON BOILERS.

No. 6689

Received at London Office

23 NOV 1950

40 mm.

Writing Report 21-11-50 When handed in at Local Office 22-11-50 Port of Oslo
 Date, First Survey 10-2-50 Last Survey 20-11-50
 Survey held at Oslo
 (Number of Visits 6)
 Tons { Gross
 Net
 on the M/T SHETLAND
 By whom built A/B Lindholmens Værk Yard No. 1017 When built
 By whom made Engine No. When made
 By whom made 9/5 Elektrisk Sveisning Boiler No. 473 When made 1950
 Port belonging to

VERTICAL DONKEY BOILER.

By whom made 9/5 Elektrisk Sveisning Boiler No. 404 When made 1950 Where fixed
 Manufacturers of Steel Appleby, Frodingham Steel Company, Scunthorpe Lines.
 Heating Surface of Boiler 120 m² Is forced draught fitted EXHAUST. Coal or Oil fired
 Description of Boilers One Vertical Spun Steel White-heat Boiler Working pressure 180 lb/sq. in.
 by hydraulic pressure to 320 lb/sq. in. Date of test 20-11-50 No. of Certificate 156.
 Firegrate in each Boiler No. and Description of safety valves to each boiler one double marine
 each set of valves per boiler per rule 3.14 a Pressure to which they are adjusted Are they fitted with easing gear
 whether steam from main boilers can enter the donkey boiler Smallest distance between boiler or uptake and bunkers
 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 1830 mm. Height 1780 mm.
 Material S.M. Steel Tensile strength 26/30 Tons/sq. in. Thickness 5/8" 1944
 shell plates welded or flanged Welded If fusion welded, state name of welding firm 9/5 Elektrisk Sveisning
 all the requirements of the Rules for Class I vessels been complied with Yes Description of riveting: circ. seams { end
 Dia. of rivet holes in { circ. seams Pitch of rivets Percentage of strength of circ. seams { plate
 Thickness of butt straps { outer Shell Crown: Whether complete hemisphere, dished partial
 Thickness of top plate
 Thickness of back plate Diameter if circular
 Pitch of stays
 Diameter of stays over thread
 Mean pitch of stay tubes in nests 63-26
 Dia. of tube holes FRONT { stay 2 1/16 BACK { stay 2
 Pitch in outer vertical rows { front back
 alternate tube in outer vertical rows a stay tube
 to combustion chamber tops: Material Tensile strength
 and thickness of girder at centre Length as per rule
 No. and pitch of stays in each

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

No. of threads per inch ☒ Screw stays: Material ☒ Tensile strength ☒

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

Tubes: Material Hot rolled Swindon Tubes External diameter ☒ plain $2\frac{1}{2}$ stay $2\frac{1}{2}$ Thickness ☒ 3.66 9.5

No. of threads per inch ☒ Pitch of tubes ☒

Manhole Compensation: Size of opening in shell plate 300×400 Section of compensating ring 90×25 No. of rivets and ☒ made at

of rivet holes Welded Outer row rivet pitch at ends ☒ 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 ☒

The foregoing is a correct description,

Dates of Survey ☒ During progress of work in shops - 10/2/50 admission to 20/11/50. Is the approved plan of boiler forwarded herewith ☒ (If not state date of approval.)

while building ☒ During erection on board vessel - ☒ Total No. of visits 6

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. Spanner Boilers No. 472 Oslo

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

This boiler has been made under Special Survey in accordance with the approved plans and the Secretary's letters.

The materials used were tested by the Society's Surveyors. The welding was carried out by recognized welders using approved electrodes. X-ray films of the longitudinal seam were submitted together with test results of the welded specimens. Tests were carried out in accordance with the Rules for Class II Welded Pressure Vessels.

Upon completion the boiler was heat treated at the works of A/S Kvarnes Brug, Oslo.

The workmanship is good and the electric welding is to our satisfaction. On completion the boiler was hydraulically tested to $320 \text{ lb}/\text{sq. in.}$ with satisfactory results. The boiler is eligible in our opinion to be installed in a closed vessel.

The boiler was stamped for identification:-

LR No. 156.
Hydro. Test. $320 \text{ lb}/\text{sq. in.}$
W.P. $180 \text{ lb}/\text{sq. in.}$
20-11-50 E.F.B.

Copy of report forwarded to Southampton Surveyors.

Survey Fee ... Ks 200.- : When applied for, ... 19

Travelling Expenses (if any) 10.- : When received, ... 19

TUES. 19 FEB '52

Committee's Minute

Assigned

See F.E. Meby, appt.

Engineer Surveyor to Lloyd's Register of Shipping



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