

REPORT ON BOILERS.

No. 6575

8 JUL 1950

Received at London Office

Date of writing Report 27th June 1950 When handed in at Local Office 28th June 1950 Port of Oslo

No. in Survey held at
Reg. Book

Oslo

Date, First Survey 10th February Last Survey 11th May 1950

on the

M.T. SLIEDRECHT

(Number of Visits 5) Tons Gross Net

Being Built at Gothenburg

By whom built Messrs. Lindholmens Varv

Yard No. 1013 When built

Engines made at

By whom made

Engine No. When made

Spanner Boilers made at Oslo

By whom made 7/5 Elektrisk Sveising

Spanner Boiler No. 476 When made 1950

Owners

Port belonging to

Exhaust Fired
VERTICAL DONKEY BOILER.

Made at Oslo By whom made 7/5 Elektrisk Sveising Spanner No. 476 E.S. Boiler No. 401 When made 1950 Where fixed -

Manufacturers of Steel Appleby-Frodingham Steel Company, Scunthorpe, Lincs

Total Heating Surface of Boiler 161 m² Is forced draught fitted - Coal or Oil fired Exhaust

No. and Description of Boilers One Vertical Spanner, "Swirlyflo" Exhaust fired Boiler Working pressure 180 lbs.

Tested by hydraulic pressure to 320 lbs Date of test 11th May 1950 No. of Certificate 150

Area of Firegrate in each Boiler - No. and Description of safety valves to each boiler One Double Marine

Area of each set of valves per boiler { per rule as fitted 3.14 m² Pressure to which they are adjusted - Are they fitted with easing gear -

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

or woodwork - 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 2385 mm Internal 2549 mm

Shell plates: Material s.m. steel Tensile strength 2430 tons/in² Thickness 5/8"

Are the shell plates welded or flanged welded If fusion welded, state name of welding firm 7/5 Elektrisk Sveising

Have all the requirements of the Rules for Class I vessels been complied with yes Description of riveting: circ. seams { end inter. }

long. seams - Dia. of rivet holes in { circ. seams long. seams } Pitch of rivets { Percentage of strength of circ. seams { plate rivets }

of Longitudinal joint { plate rivets combined } Thickness of butt straps { outer inner } Shell Crown: Whether complete hemisphere, dished partial

spherical, or flat - Material - Tensile strength - Thickness -

Radius - Description of Furnace: Plain, spherical, or dished crown - Material -

Tensile strength - Thickness - External diameter { top bottom } Length as per rule -

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

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

Thickness of Ogee Ring - Diameter as per rule { D d }

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

Radius if dished - 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 -

Tube Plates: Material { top s.m. steel bottom s.m. steel } Tensile strength { 2430 tons/in² 2430 tons/in² } Thickness { 1" 1" } Mean pitch of stay tubes in nests 63-126

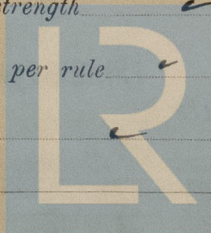
If comprising shell, Dia. as per rule { front back } Pitch in outer vertical rows { Dia. of tube holes FRONT { stay 2 1/4" plain 2 1/4" } BACK { stay 2" plain 2" }

Is each alternate tube in outer vertical rows a stay tube -

Girders 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



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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 "Swirlflo" tubes & stay tubes supplied by Messrs. Spanner Boiler Ltd. External diameter ☒ plain ☒ 2" ☒ stay ☒ 2" ☒ Thickness ☒ 3.66 mm ☒ 9.5 mm ☒
No. of threads per inch ☒ Pitch of tubes ☒
Manhole Compensation: Size of opening in shell plate 300 x 400 mm ☒ Section of compensating ring 90 x 25 mm ☒ No. of rivets and diameter ☒
of rivet holes ☒ 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,

Manufacturer.

Dates of Survey ☒ During progress of work in shops - ☒ 10/2 - 11/3 - 13/3 - 24/4 - 11/5/50 ☒ Is the approved plan of boiler forwarded herewith ☒ No
while building ☒ During erection on board vessel - ☒ (If not state date of approval.) E. 24/2/49
Total No. of visits ☒

Is this Boiler a duplicate of a previous case ☒ If so, state Vessel's name and Report No. ☒

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

The boiler was constructed in accordance with the approved plan and in conformity with the Secretary's letter concerning same

The materials used were tested by the Society's Surveyors. The electric 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 (see Secretary's letters E. 17/4 & 1/6/50).

The boiler was on completion heat treated at Gf Krumm Brüg, Oslo. All tests as prescribed for Class 1 Pressure Vessels were carried out with satisfactory results. Annealing curve attached to the report.

The workmanship is good, the electric welding throughout being to our satisfaction. All boiler mountings fitted in accordance with approved plan N° 3433 A, and the Secretary's letters regarding same

The boiler was tested by hydraulic pressure to 320 lbs. per sq. inch

The boiler was marked: & N° 150

Lloyds Test 320 lbs.

W.P. 180 lbs

11-5-50 L.F.

Copy of Report forwarded to the Surveyors

pt. A/ Elektrisk Sveising, Oslo

B. Fjergensen

Survey Fee ... £ 200.- : } When applied for, 19. ☒ Seen letter E. 9/6/50
Travelling Expenses (if any) £ 10.00 : } When received, 19. ☒

B. Fjergensen

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 26 JAN 1951

Committee's Minute

Assigned

See F.E. Welch rpt.



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