

REPORT ON BOILERS.

SECONDARY SECTION OF

No. FE-2024

Received at London Office

Writing Report 13th July, 1962 When handed in at Local Office 14th July, 1962 Port of SHIMONOSEKI

Survey held at Hiroshima, Japan Date, First Survey 11th July, 1961 Last Survey 4th July, 1962

on the Motor Tanker "LEBIDEN" (Number of Visits 53) Tons Gross 22,226.24 Net 15,360.43

Hiroshima, Japan By whom built Mitsubishi Shipbuilding & Eng. Co., Ltd., Hiroshima Works Yard No. 146 When built 7-1962

Hiroshima, Japan By whom made Mitsubishi Shipbuilding & Engineering Co., Ltd., Hiroshima Works Engine No. 22 When made 3-1962

Hiroshima, Japan By whom made Mitsubishi Shipbuilding & Engineering Co., Ltd., Hiroshima Works Boiler No. 89 When made 7-1962

V/O "SUDOIMPORT" Port belonging to Odessa

TECHNICAL BOILER.

Hiroshima By whom made Mitsubishi Shipbuilding & Eng. Co., Ltd., Hiroshima Works Boiler No. 89 & 90 When made 7-1962 Where fixed Boiler room

Plates - Fuji Iron & Steel Co., Ltd., Hirohata Works, Hirohata

Tubes - Sumitomo Metal Industries, Wakayama & Amagasaki Works

Heating Surface of each Boiler 65 M² Is forced draught fitted No Heated by Coal or Oil fired primary steam

Description of Boilers 2 - Mitsubishi Double Evaporation Boilers Design Pressure 18 kg/cm² Working Pressure 16 kg/cm²

by hydraulic pressure to 30.5 kg/cm² Date of test 22 Jan., 1962, 24th Jan., 1962 No. of Certificate I-11958 I-11980

fire grate in each Boiler - No. and description of safety valves to each boiler 1 set double spring loaded improved high lift type

each set of valves per boiler (per Rule 11,500 mm² as fitted 12,723.46 mm² Pressure to which they are adjusted 16 kg/cm² Are they fitted with easing gear Yes

Primary Secondary Boiler No

Whether steam from main boilers can enter the Secondary Boiler No

work - Is oil fuel carried in the double bottom under boiler No Smallest distance between boiler or uptake and bunkers

Is the base of the boiler insulated Yes Largest internal dia. of boiler 1,590 mm Length 4,510 mm

ates: Material O.H. Steel Tensile strength 48.4 kg/mm² Thickness 18 mm

shell plates welded or flanged Welded If fusion welded, state name of welding firm Mitsubishi Shipbuilding & Engineering Co., Ltd., Hiroshima Works

the requirements of the Rules for Class I vessels been complied with Yes Description of riveting: circ. seams { end - inter -

ms. Dia. of rivet holes in { circ. seams - long. seams - Pitch of rivets { Thickness of butt straps { outer - inner -

rown: Whether complete hemisphere, dished partial spherical, or flat toriconical Material O.H. steel for crown 50.5 - 53.2 kg/mm² (Crown) O.H. steel for toriconical 50.0 kg/mm² (toriconical) 22mm (toriconical)

1,300 mm Description of Furnace: Plain, spherical, or dished crown Material -

strength - Thickness - External diameter { top - bottom - Length as per Rule -

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

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

s of Ogee Ring Diameter as per Rule { D - d -

Chest Material O.H. Steel Tensile strength 50.4 kg/mm² Thickness of top plate 30 mm (chest)

dished Thickness of back plate - Diameter if circular -

s per Rule Pitch of stays -

fitted with nuts or riveted over Diameter of stays over thread -

ates: Material { front Forged Steel Tensile strength { 59.5 - 60.1 kg/mm² Thickness { 120 mm Mean pitch of stay tubes in nests 35 mm

g Coil) { front back Pitch in outer vertical rows { Dia. of tube holes FRONT { stay - plain 25.1 mm BACK { stay - plain -

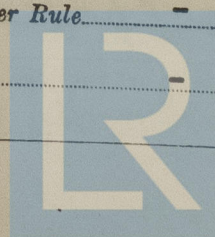
single shell, dia. as per Rule { front back

ternate tube in outer vertical rows a stay tube

Combustion Chamber Tops: Material - Tensile strength -

thickness of girder at centre - Length as per Rule -

part - 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 Boiler Tube External diameter { plain, 25 mm stay, - Thickness { 2.6 mm
No. of threads per inch - Pitch of tubes 35 mm
Manhole Compensation: Size of opening in ^{end} shell plate 305 x 405 mm Section of compensating ring - No. of rivets and dia
of rivet holes - Outer row rivet pitch at ends - Depth of flange if manhole flanged -
Uptake: External diameter 2,000 mm square section Thickness of uptake plate 4.5 mm
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, Piston

Mitsubishi Shipbuilding & Engineering Co., Ltd., SHAR
Hiroshima Works.

1961 (Work in Shops)
Dates of Survey { During progress of work in shops - - July 11, 15, 19, Aug. 1, 4, 10, 12, 19, 22, 25, 26, 28 27-5-61
while building { During erection on board vessel - - Sept. 1, 6, 8, 20, 21, 22, 28, 29, 26-6-61
Oct. 3, 6, 9, 11, 19, 20, 24, 27, Nov. 1, 3, 4, 7, 8, 9, 10, 11, 13, 14, 16, 21, 25, Dec. 1, 4, 9, 11, 13, 19, 22, 26
1962: Feb. 7, April 17, June 1, 6, July 4 Total No. of visits 53
Is the approved plan of boiler forwarded herewith (If not state date of approval.)

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. m.v. "LUGANSK" No. FE-1960

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The auxiliary boilers of this vessel have been constructed and installed under Special Survey in accordance with the Rules, Approved Plans and Secretary's letter. The workmanship and material are sound and good.

The auxiliary boilers have been examined under steam and the safety valves adjusted to 228 lb/in² on board the ship. Accumulation tests have been carried out in accordance with the Rules with satisfactory results.

Survey Fee ... £ 48.000- When applied for 19

Travelling Expenses (if any) £ When received 19

FRIDAY 14 SEP 1962

Date Committee's Minute See App 46

Engineer Surveyor to Lloyd's Register of Shipping
W. A. Cook & J. Nonomura



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