

REPORT ON BOILERS.

No. FE6518

Received at London Office

Writing Report JUN 23 1959 19 When handed in at Local Office JUL - 3 1959 19 Port of Kobe

Survey held at Innoshima & Mukaishima, Japan Date, First Survey 28th Oct., 1958 Last Survey 4th June, 1959

on the Steel Single Screw Motor Fishing Boat "DNESTR" (Number of Visits 26) Tons { Gross 497.10
Net 162.01

Mukaishima, Japan By whom built Hitachi S.B. & E. Co., Ltd. Mukaishima Shipyard Yard No. 3873 When built 1959-6

made at Osaka, Japan By whom made Hitachi S.B. & E. Co., Ltd. Sakurajima Shipyard Engine No. 2087 When made 1959-3

made at Innoshima, Japan By whom made Hitachi S.B. & E. Co., Ltd. Innoshima Shipyard Boiler No. 252 When made 1959-1

V.O. Sudoimport, Moscow, U.S.S.R. Port belonging to Vladivostok

CAL BOILER.

Innoshima By whom made Hitachi S.B. & E. Co., Ltd. Innoshima Shipyard Boiler No. 252 When made 1959-1 Where fixed Mukaishima

Manufacturers of Steel Yawata Iron & Steel Co., Ltd. Nippon Kokan K.K. Kobe Steel Works Ltd.

Heating Surface of each Boiler 14 sq. meters Is forced draught fitted No Coal or Oil fired Oil

Description of Boilers one off- Vertical Multitubular Fusion Welded Boiler Working Pressure 4 kgs/cm²

Hydraulic pressure to 8 kgs/cm² Date of test 29-1-59 No. of Certificate M-30047

Fire grate in each Boiler - No. and description of safety valves to each boiler 1, Duplex Ordinary Type, 40 mm dia.

each set of valves per boiler { per Rule As approved Pressure to which they are adjusted 4 kgs/cm² Are they fitted with easing gear Yes
as fitted 2513 mm

Whether steam from main boilers can enter the donkey boiler No Smallest distance between boiler or uptake and bunkers 5 Meters

Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating 5 Meters

Is the base of the boiler insulated Yes Largest internal dia. of boiler 1,150 mm Height 2,625 mm

Material Boiler Quality Steel Tensile strength 41-47 kgs/mm² Thickness 9 mm

Shell plates welded or flanged Welded If fusion welded, state name of welding firm Hitachi S.B. & E. Co., Ltd. Innoshima Shipyard

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

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

Shape: Whether complete hemisphere, dished partial spherical, or flat Flat Material Boiler Quality Steel Tensile strength 41-47 kgs/mm² Thickness 14 mm

Flange, 36 mm Description of Furnace: Plain, spherical, or dished crown Plain Material Boiler Quality Steel

Strength 41-47 kgs/mm² Thickness 9 mm Combustion Chamber { top 900 mm
External diameter { bottom 955 mm Length as per Rule 800 mm

Support stays circumferentially 125 mm and vertically - Are stays fitted with nuts or riveted over Welded

of stays over thread 22 mm Radius of spherical or dished furnace crown -

of Ogee Ring 9 mm Diameter as per Rule { D. 1,150 mm
d. 1,000 mm

ion Chamber: Material Boiler Quality Steel Tensile strength 41-47 kgs/mm² Thickness of top plate 9 mm

dished - Thickness of back plate 12 mm Diameter if circular -

per Rule 800 mm Pitch of stays 125 mm

fitted with nuts or riveted over Welded Diameter of stays over thread 22 mm

Material { Top..... Tensile strength { 41-47 kgs/mm² Thickness { 14 mm Mean pitch of stay tubes in nests 242.5 mm
Bottom.....
Back.....

ing shell, dia. as per Rule { front..... Pitch in outer vertical rows { Dia. of tube holes TOP { stay 53.6 mm BOTTOM { stay 51.4 mm
back..... plain 53.6 mm plain 51.4 mm

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, 50.8 mm
stay, 50.8 mm **Thickness** { 3.2 mm
8 mm

No. of threads per inch - **Welded** **Pitch of tubes** - 75 mm

Manhole Compensation: Size of opening in shell plate, 115mm x 150mm **Section of compensating ring** - 14mm x 35 mm **No. of rivets at stroke** -

of rivet holes - **Welded** **Outer row rivet pitch at ends** - **Depth of flange if manhole flanged** -

Uptake: External diameter - 800 mm **Thickness of uptake plate** - 6 mm

Cross Tubes: No. - **External diameters** { - **Thickness of plates** -

18 **Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with** - Yes

The foregoing is a correct description of the boiler.

HITACHI SHIPBUILDING & ENGINEERING CO., LTD.
INNOSHIMA SHIPYARD

Dates of Survey while building { **During progress of work in shops - -** 1958: Oct. 28, 31, Nov. 19, 24, 28
Dec. 3, 9, 10, 16, 18, 23, 24, 26, 27
1959: Jan. 8, 10, 21, 23, 29
During erection on board vessel - - - 1959: Feb. 25, May 5, 7, 16, 18, 21, 22

Is the approved plan of boiler forwarded herewith - KOB 7 Oct. (If not state date of approval.)

Total No. of visits - 26

Is this Boiler a duplicate of a previous case - Yes **If so, state Vessel's name and Report No.** - M.V. " DNEPR " FE.No. -6491

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

The Room Heating Boiler of this ship has been constructed under Special Survey in accordance with the Rules, Approved plans and Secretary's letters.

The material and workmanship are good. The Boiler was installed on the ship in a proper manner, the Safety Valves were adjusted under steam and accumulation test was carried out satisfactorily.

PLATES NOS.	CHARGE NO.	MAKER	WHERE USED
R-5582	D28368	Yawata Iron & Steel Co., Ltd.	Shell Plate
R-5731	D28368	do	Upp. Tube Plate
R-5731	D28368	do	Lower Tube Plate
R-5579	D28368	do	Furnace Plate
R-5579	D28368	do	Fire Opening

Survey Fee ... £ : : **When applied for** - 19

Travelling Expenses (if any) £ : : **When received** - 19

Date - FRIDAY 24 JUL 1959

Committee's Minute - See Rpt. 1.



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