

REPORT ON BOILERS.

No. FE-6491

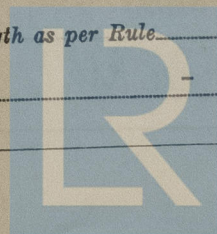
13 JUL 1959

Received at London Office

Reporting Report MAY 28 1959 19 When handed in at Local Office JUN - 8 1959 19 Port of Kobe
 Survey held at Innoshima & Mukaishima, Japan Date, First Survey 28th Oct., 1958 Last Survey 27th April, 1959
 on the Steel Single Screw Motor Fishing Boat "DNEPR" (Number of Visits 27) Tons Gross 497.10
Net 162.01
Mukaishima, Japan By whom built Hitachi S.B. & E. Co., Ltd. Mukaishima Shipyard Yard No. 3872 When built 1959-4
Osaka, Japan By whom made Hitachi S.B. & E. Co., Ltd. Sakurajima Shipyard Engine No. 2086 When made 1959-2
Innoshima, Japan By whom made Hitachi S.B. & E. Co., Ltd. Innoshima Shipyard Boiler No. 251 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. 251 When made 1-1959 Where fixed Mukaishima
Shippers 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 - 1959 No. of Certificate M-30047
 fire grate in each Boiler - No. and description of safety valves to each boiler One-Double Spring 40mm dia. Ordinary Type.
 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. 2513mm²
 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
 Hitachi S.B. & E. Co., Ltd. Innoshima Shipyard
 shell plates welded or flanged Welded If fusion welded, state name of welding firm
 the requirements of the Rules for Class I vessels been complied with Yes Description of riveting: circ. seams {
 Dia. of rivet holes in {
 Pitch of rivets {
 Thickness of butt straps {
 Boiler Quality 41-47 Tensile strength kgs/mm² Thickness 14 mm
 crown: Whether complete hemisphere, dished partial spherical, or flat Flat Material Steel
 at flange, 36 mm Description of Furnace: Plain, spherical, or dished crown. Material Boiler Quality Steel
 strength 41 - 47 kgs/mm² Thickness 9 mm Combustion Chamber 900 mm Length as per Rule 800 mm
 External diameter {
 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
 9-3-5 of Ogee Ring 9 mm Diameter as per Rule {
 14- Chamber: Material Boiler Quality Steel Tensile strength 41-47 kgs/mm² Thickness of top plate 9 mm
 4-59 dished - Thickness of back plate 12 mm Diameter if circular -
 as per Rule 800 mm Pitch of stays 125 mm
 fitted with nuts or riveted over Welded Diameter of stays over thread 22 mm
 Material {
 Tensile strength {
 Thickness {
 Mean pitch of stay tubes in nests 242.5 mm
 staying shell, dia. as per Rule {
 Pitch in outer vertical rows {
 Dia. of tube holes 53.6 mm TOP 53.6 mm BOTTOM 51.4 mm
 plain 53.6 mm BACK 51.4 mm
 alternate tube in outer vertical rows a stay tube
 to Combustion Chamber Tops: Material - Tensile strength -
 d thickness of girder at centre - Length as per Rule -
 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, **No. of threads per inch** **Are the stays drilled at the outer ends**
 or
 over threads
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
Mud or Sight Hole
Manhole Compensation: Size of opening in shell plate 115mm x 150mm ✓ **Section of compensating ring** 14mm x 35mm ✓ **No. of rivets and diameter**
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 11 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description,

L. Hamata
 HITACHI SHIPBUILDING & ENGINEERING CO., LTD.
 INNOSHIMA SHIPYARD Manufacturer.

1958: Oct. 28, 31 Nov. 11, 19, 24, 28
 Dec. 3, 9, 10, 16, 19, 23, 24, 27
 1959: Jan. 8, 9, 10, 13, 16, 24
Dates of Survey while building { **During progress of work in shops** **Is the approved plan of boiler forwarded herewith** Kob 7, Oct., 1958
 (If not state date of approval.)
 { **During erection on board vessel** 1959: Feb. 16 March 9 Apr. 3, 18, 21, 27 **Total No. of visits** 27

Is this Boiler a duplicate of a previous case No **If so, state Vessel's name and Report No.** None

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 £24,000:-
 Travelling Expenses (if any) £

When applied for 19
 When received 19

L. Hamata & S. Hashiguchi
 Engineer Surveyor to Lloyd's Register of Shipping.

FRIDAY 24 JUL 1959

Date
 Committee's Minute See Rpt. 1.



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