

# REPORT ON BOILERS.

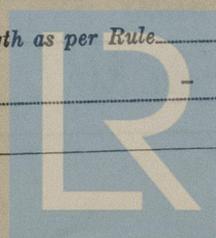
No. FE-6491

13 JUL 1959

Received at London Office

Writing Report MAY 28 1959 19 When handed in at Local Office JUN - 8 1959 19 Port of KobeSurvey held at Innoshima & Mukaishima, Japan Date, First Survey 28th Oct., 1958 Last Survey 27th April, 1959on the Steel Single Screw Motor Fishing Boat "DNEPR" (Number of Visits 27) Tons Gross 497.10  
Net 162.01Mukaishima, Japan By whom built Hitachi S.B. & E. Co., Ltd. Mukaishima Shipyard Yard No. 3872 When built 1959-4Osaka, Japan By whom made Hitachi S.B. & E. Co., Ltd. Sakurajima Shipyard Engine No. 2086 When made 1959-2Innoshima, Japan By whom made Hitachi S.B. & E. Co., Ltd. Innoshima Shipyard Boiler No. 251 When made 1959-1V.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 MukaishimaManufacturers 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 OilDescription of Boilers One off- Vertical Multitubular Fusion Welded Boiler Working Pressure 4 kgs/cm<sup>2</sup>Hydraulic pressure to 8 kgs/cm<sup>2</sup> Date of test 29 - 1 - 1959 No. of Certificate M-30047Fire 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/cm<sup>2</sup> Are they fitted with easing gear Yes  
as fitted. 2513mm<sup>2</sup>Whether steam from main boilers can enter the donkey boiler No Smallest distance between boiler or uptake and bunkers 5 metersIs oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating 5 metersIs the base of the boiler insulated Yes Largest internal dia. of boiler 1,150 mm Height 2,625 mmMaterial Boiler Quality Steel Tensile strength 41 - 47 kgs/mm<sup>2</sup> Thickness 9 mmShell plates welded or flanged Welded If fusion welded, state name of welding firm Hitachi S.B. & E. Co., Ltd. Innoshima ShipyardDo the requirements of the Rules for Class I vessels been complied with Yes Description of riveting: circ. seams {  
inter.....Dia. of rivet holes in {  
Pitch of rivets {  
Thickness of butt straps {  
outer.....  
inner.....Crown: Whether complete hemisphere, dished partial spherical, or flat Flat Material Boiler Quality Steel Tensile strength 41-47 kgs/mm<sup>2</sup> Thickness 14 mmDescription of Furnace: Plain, spherical, or dished crown. Plain Material Boiler Quality SteelStrength 41 - 47 kgs/mm<sup>2</sup> Thickness 9 mm Combustion Chamber {  
External diameter {  
top. 900 mm  
bottom. 955 mm Length as per Rule 800 mmSupport stays circumferentially 125 mm and vertically - Are stays fitted with nuts or riveted over WeldedRadius of spherical or dished furnace crown 22 mmDiameter as per Rule {  
D. 1,150 mm  
d. 1,000 mmMaterial Boiler Quality Steel Tensile strength 41-47 kgs/mm<sup>2</sup> Thickness of top plate 9 mmThickness of back plate 12 mm Diameter if circular -Pitch of stays 125 mmDiameter of stays over thread 22 mmMaterial {  
Tensile strength {  
Thickness {  
Mean pitch of stay tubes in nests 242.5 mmPitch in outer vertical rows {  
Dia. of tube holes {  
TOP stay 53.6 mm BOTTOM stay 51.4 mm  
FRONT plain 53.6 mm BACK plain 51.4 mmAlternate tube in outer vertical rows a stay tube -Material - Tensile strength -Length as per Rule -No. and pitch of stays in each -apart -

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Lloyd's Register  
Foundation

210-50010-0162

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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

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 \_\_\_\_\_

Have all the requirements of Sections <sup>18</sup> 14 to 22 inclusive for boilers been complied with \_\_\_\_\_ Yes

The foregoing is a correct description,

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

Dates of Survey while building { During progress of work in shops - - } 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

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

7 AR  
3.7.59

Survey Fee ... .. £24,000:- When applied for \_\_\_\_\_ 19 \_\_\_\_\_

Travelling Expenses (if any) £ \_\_\_\_\_ : When received \_\_\_\_\_ 19 \_\_\_\_\_

*Hammer & Ishikiguchi*  
Engineer Surveyor to Lloyd's Register of Shipping.

FRIDAY 24 JUL 1959

Date \_\_\_\_\_  
Committee's Minute \_\_\_\_\_ See Rpt. 1.

