

REPORT ON BOILERS.

No. FE-5706

Received at London Office

24 JUN 1958

of writing Report 13th May, 1958. When handed in at Local Office MAY 23, 1958 Port of KOBE

No. in Survey held at Osaka & Kobe Date, First Survey 28th Sept., 1957 Last Survey 13th May, 1958.

g. Book.

on the M.V. "FENIX" (Number of Visits 17)

Tons { Gross 9,431
Net 5,730

uilt at Kobe, Japan By whom built Mitsubishi Heavy Ind., Reorganized, Ltd.,
Kobe Shipyard & Engine Works Yard No. 883 When built 1958-5

gines made at Kobe, Japan By whom made - ditto - Engine No. 1547 When made 1958-5

ilers made at Osaka, Japan By whom made Hirano Iron Works Co., Ltd. Boiler No. H-588 When made 1958-1

wners Phoenix Compania De Navegacion S.A. Port belonging to Monrovia

VERTICAL BOILER.

ade at Osaka By whom made Hirano Iron Works Co., Ltd. Boiler No. H-588 When made Jan., 1958 Where fixed Boiler Platform on 2nd Deck in Engine Room Fwd. End Centre.

Plate:- Kawasaki Steel Corp., Fukiai Plant, Kobe

Manufacturers of Steel Tube:- Sumitomo Metal Ind., Ltd., Steel Tube Works, Amagasaki

Oil burning - 35.17 M²

Exhaust gas - 41.25 M²

Is forced draught fitted ☒ Yes

Coal or Oil fired ☒ Oil fired and Exhaust gas heated.

Working Pressure 7 kg/cm²

ested by hydraulic pressure to 14 kg/cm² Date of test 25th January, 1958 No. of Certificate KOB No. I-47723

ea of fire grate in each Boiler - No. and description of safety valves to each boiler 1 set High Lift Duplex 50x50 Spring Loaded

ea of each set of valves per boiler { per Rule as approved 29.3 cm²
as fitted 34.27 Pressure to which they are adjusted 7 kg/cm² Are they fitted with easing gear ☒ Yes

eriate whether steam from main boilers can enter the donkey boiler - Smallest distance between boiler or uptake and bunkers 7/7/58

nkcase Is oil fuel carried in the double bottom under boiler ☒ No Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated No Largest internal dia. of boiler 1,800 mm Height 5,700 mm

ell plates: Material Boiler Steel Tensile strength 44.0 - 49.3 kg/mm² Thickness Top & Bottom 14 mm Middle 16 mm

re the shell plates welded or flanged Fusion Welded If fusion welded, state name of welding firm Mitsubishi H.I., Reorganized, Ltd.,
Kobe Shipyard & Engine Works

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

g. seams - Dia. of rivet holes in { circ. seams 23 mm Pitch of rivets 67.32 mm Percentage of strength of circ. seams { plate 65.83
long. seams - rivets 72.14

longitudinal joint { plate - Thickness of butt straps { outer -
rivets - inner - Shell Crown: Whether complete hemisphere, dished partial

herical, or flat Dished Partial Material Boiler Steel Tensile strength 43.9 kg/mm² Thickness 19 mm

atured radius 1,530 mm Description of Furnace: Plain, spherical, or dished crown spherical Material Boiler Steel

nsile strength 48.4 kg/mm² Thickness 15 mm External diameter { top - Length as per Rule -
bottom -

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

ameter of stays over thread - Radius of spherical or dished furnace crown 795 mm

ickness of Ogee Ring ☒ 22 mm Diameter as per Rule { D 1,800 mm
d 1,580 mm

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

dius if dished - Thickness of back plate - Diameter if circular -

ngth as per Rule - Pitch of stays -

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

be Plates: Material { front Boiler Steel Tensile strength { 47.3 - 47.4 kg/mm² Thickness { 25 mm Exhaust 252 mm
back Boiler Steel 45.0 - 46.3 kg/mm² 25 mm Oil 276.4 mm

omprising shell, dia. as per Rule { front - Pitch in outer vertical rows { Exh. 144 mm Dia. of tube holes FRONT { stay 54 mm Oil 64 mm BACK { stay 50.8 mm
back - Oil 168 mm plain Exh. 52 mm Oil 61 mm plain 60.3 mm 52 mm 61 mm

each alternate tube in outer vertical rows a stay tube Yes

ders to Combustion Chamber Tops: Material - Tensile strength -

orkth and thickness of girder at centre - Length as per Rule -

tance 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 -
Exh. 50.8 mm 3.5 mm
Oil 60.3 mm 3.5 mm
Tubes: Material O.H. Steel External diameter { plain Exh. 50.8 mm Thickness { 9.0 mm
stay Oil 60.3 mm 9.0 mm
No. of threads per inch 9 Pitch of tubes Exh. 72 x 72 mm
Oil 84 x 84 mm
Manhole Compensation: Size of opening in shell plate - Section of compensating ring - No. of rivets and diameter
of rivet holes - Outer row rivet pitch at ends - Depth of flange if manhole flanged 80 mm
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 Yes

K. Ogata
KOBE SHIPYARD & ENGINE WORKS,
MITSUBISHI HEAVY INDUSTRIES, REORGANIZED, LIMITED

The foregoing is a correct description,
Hirano Iron Works Co., Ltd. Manufacturer

Dates of Survey { During progress of work in shops - 1957 Sept. 28, Oct. 23, 26, Nov. 6, 8, 13, 16, 26, Dec. 6, 26, 1958 Jan. 16, 25
while building { During erection on board vessel - 1958 March 12, 22, April 8, 14, May 13
Is the approved plan of boiler forwarded herewith 29th January, 1958
(If not state date of approval.)
Total No. of visits 17

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, & c.)
This Boiler has been constructed under Special Survey in accordance with the Rules, approved plans and the Secretary's letters.
The material and workmanship are sound and good.
The Boiler has been examined under steam and the safety valves adjusted to 7 kg/cm².
Accumulation test carried out with satisfactory results.

Identification of Boiler Plates:-			
(Item)	Charge No.	Roll No.	Maker
Shell plate, upper	CII-2797	7J 9455	Kawasaki Steel Corp., Fukiai Plant
" , middle	CII-2610	7J 2573	"
" , lower	CIII-2354	7H 3552	"
Shell crown	CII-2625	7G 3824	"
Furnace	CI-2661	7G 4701	"
Ogee ring	CII-2610	7G 3264	"
Tube plate, front	CII-2597	7G 1903	"
" , back	CII-2597	7G 1475	"

Survey Fee ... £ 24,000.- } When applied for 19
Travelling Expenses (if any) £ 2,500.- } When received 19

Date FRIDAY 18 JUL 1958
Committee's Minute Su Rpt. 1
P. Manson & S. Matsumoto.
Engineer Surveyor to Lloyd's Register of Shipping.
Lloyd's Register Foundation