

REPORT ON BOILERS.

No. 570

Received at London Office 9 - AUG 1956

Date of writing Report 19 When handed in at Local Office 19 Port of Shimonoseki

No. in Survey held at Nagasaki, Japan Date, First Survey 16-9-54 Last Survey 31-5-1956

Reg. Book. 36405 on the M.T. "KOSOH MARU" carrying vegetable oil in deep tanks in way of tunnel (Number of Visits 7)

Gross 9204.74 Tons Net 5349.95

Built at Nagasaki, Japan By whom built Mitsubishi Zosen K.K. Yard No. 1465 When built 6-1956

Engines made at Nagasaki, Japan By whom made Mitsubishi Zosen K.K. Engine No. 278 When made 2-1956

Boilers made at Osaka, Japan By whom made Kisano Iron Works Co., Ltd. Boiler No. H515 When made 2-1956

Owners Daido Kaikan K.K. Port belonging to Kobe

VERTICAL BOILER.

Made at * By whom made * Boiler No. * When made * Where fixed *

Manufacturers of Steel *

Total Heating Surface of each Boiler Boiler 80m² Economiser 72m² Is forced draught fitted no Coal or Oil fired Oil and Exhaust gas

No. and Description of Boilers 1 Vertical Cochran type Boiler with exhaust gas heated economiser Working Pressure 7 Kg/cm²

Tested by hydraulic pressure to Economiser 22 Kg/cm² Date of test Economiser 13-12-54 No. of Certificate Economiser M11189

Area of fire grate in each Boiler - No. and description of safety valves to each boiler 1-60mm dia. double spring improved high lift

Area of each set of valves per boiler { per Rule 42.90 mm² as fitted 56.55 mm² Pressure to which they are adjusted 7 Kg/cm² Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler - Smallest distance between boiler or uptake and bunkers -

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 Yes Largest internal dia. of boiler * Height *

Shell plates: Material * Tensile strength * Thickness *

Are the shell plates welded or flanged * If fusion welded, state name of welding firm *

Have all the requirements of the Rules for Class I vessels been complied with * Description of riveting: circ. seams { end * inter * }

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

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat * Material * Tensile strength * Thickness *

Radius * Description of Furnace: Plain, spherical, or dished crown * Material *

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

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

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

Thickness of Ogee Ring * Diameter as per Rule { D * d * }

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

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

Length as per Rule - Pitch of stays -

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

Tube Plates: Material { front * back * Tensile strength { * Thickness { * Mean pitch of stay tubes in nests *

comprising shell, dia. as per Rule { front * back * Pitch in outer vertical rows { * Dia. of tube holes FRONT { stay * plain * BACK { stay * plain * }

each alternate tube in outer vertical rows a stay tube *

Orders to Combustion Chamber Tops: Material - Tensile strength -

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

Distance apart - No. and pitch of stays in each -

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 _____

Tubes: Material * _____ External diameter { plain * _____ Thickness { * _____
stay * _____

No. of threads per inch * _____ Pitch of tubes * _____

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 * _____

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

The foregoing is a correct description,

S. Koga

Manufactured

NAGASAKI WORKS

mitsubishi shipbuilding & engineering co., LTD.

VERTICAL

Made at Osaka

Manufacturers

Total Heating S

No. and Descri

tested by hydra

Area of fire gr

Area of each se

State whether st

woodwork

shell plates:

re the shell pl

ave all the res

Dou

ng. seams dou

hell Crown:

radius 1,

nsile strength

ch of support

iameter of stay

ickness of O

ombustion C

dus if dishe

ngth as per

e stays fitted

be Plates: M

comprising sh

ach alternat

ders to Con

th and thick

ance apart

Dates of Survey while building { During progress of work in shops - - { 1954 Sept 16, Nov 4, Dec 13 Is the approved plan of boiler forwarded herewith * and 2-10-54, 20-12-55, 20
(If not state date of approval.)

{ During erection on board vessel - - - { 1956 May 12, 14, 19, 31 Total No. of visits 7 (Nagasaki)

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. MT KOCHU MARU S/NK 450 Vertical Boiler

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

The Donkey Boiler of this ship has been installed under the supervision of the surveyor in accordance with the requirements of the Rules, the approved plans and the Secretary's letters. The exhaust-gas heated Economiser (No. 1397) fitted to this donkey boiler has been made under special survey in accordance with the requirements of the Rules, the approved plans and the Secretary's letters.

The materials and workmanship are good.

The donkey boiler with the exhaust-gas heated economiser was examined under steam, safety valves of donkey boiler adjusted to 7 Kgs. per sq. cm., accumulation test carried out and found satisfactory.

For the report on survey of the donkey boiler during construction in the shops, see Kobe surveyors' Rpt. 56 No. FE-3532 attached herewith.

The places where marked * in this report have been certified by Kobe Surveyors in their report.

Survey Fee ... ¥12,000 :

Travelling Expenses (if any) £ :

When applied for JUL 26 1956

When received LOCALLY 19

P. Masao

Peter Manson

Engineer Surveyor to Lloyd's Register of Shipping

FRIDAY 14 SEP 1956

Date

Committee's Minute

See Rpt. 4 C.



© 2021

Lloyd's Register Foundation