

REPORT ON MACHINERY.

No. 2485

Received at London Office

WED. 9-JUL. 1919

Writing Report

19

When handed in at Local Office

10

Port of Kobe

Survey held at

Date, First Survey

10th June 1918 Last Survey 28th March 1919

ok.

on the Twin Screw Engines for Asano Shipyard No. 16

(Number of Visits 23)

Built at

Furumi

By whom built

Kaikyo Manufacturing Co. S. B. Co.

Tons

Gross

Net

When built

made at

Osaka

By whom made

Kubota Iron Works

when made

3. 1919

made at

Tokyo

By whom made

Shikawajima S. B. Co.

when made

5. 1919

red Horse Power

Owners

Kaburata Kisen Kaisha

Port belonging to

orse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

VES, &c.—Description of Engines

Triple Expansion Twin Screw

No. of Cylinders

6

No. of Cranks

6

Cylinders

22:36:1/2:61

Length of Stroke

48

Revs. per minute

Dia. of Screw shaft

as per rule 13.4

Material of screw shaft

Steel

screw shaft fitted with a continuous liner the whole length of the stern tube

Yes

Is the after end of the liner made water tight

propeller boss

Yes

If the liner is in more than one length are the joints burned

Yes

If the liner does not fit tightly at the part

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Yes

If two

are fitted, is the shaft lapped or protected between the liners

Length of stern bush

5' 2"

Tunnel shaft

as per rule 12.159

Dia. of Crank shaft journals

as per rule 12.76

Dia. of Crank pin

as per rule 13.78

Size of Crank webs

8 1/2 x 24 1/2

Dia. of thrust shaft under

13 1/8

Dia. of screw

16 x 0

Pitch of Screw

18 x 0

No. of Blades

4

State whether moveable

Yes

Total surface

85.3

Feed pumps

Two

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

Bilge pumps

Two

Diameter of ditto

4"

Stroke

24"

Can one be overhauled while the other is at work

Yes

Donkey Engines

Sizes of Pumps

No. and size of Suctions connected to both Bilge and Donkey pumps

ine Room

In Holds, &c.

Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

connections with the sea direct on the skin of the ship

Are they Valves or Cocks

y sized sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the Discharge Pipes above or below the deep water line

y each fitted with a Discharge Valve always accessible on the plating of the vessel

Are the Blow Off Cocks fitted with a spigot and brass covering plate

pipes are carried through the bunkers

How are they protected

4 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

4 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

of examination of completion of fitting of Sea Connections

of Stern Tube

Screw shaft and Propeller

Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

ERS, &c.—(Letter for record

Manufacturers of Steel

Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

ng Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

ch boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

iler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

st distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

ess Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

eam

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

ntages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

ng pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

ial of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

ial

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

ter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

ess

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

ter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

Shippin

ess of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

ing pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

tely

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

ened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

ing pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

W1341-0042

VERTICAL DONKEY BOILER—Manufacturers of Steel

No.	Description	When made	Where fixed
Made at	By whom made		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted
If fitted with easing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey

SPARE GEAR. State the articles supplied:—

大阪市南區 久保田鐵工所 製造 前記は正しい説明である。

久保田鐵工所

Manufacturer.

Dates of Survey while building: During progress of work in shops—10, 14, 20 June. 6, 20, 24, 27 July. 14 Aug. 30 Sept. 5, 10, 26 Oct. 14 Nov. 4, 9, 18, 25 Dec. 1918. 15, 29 Jan. 11 Feb. 5, 10, 28 Mar. 1919. Total No. of visits—23

Is the approved plan of main boiler forwarded herewith—

Dates of Examination of principal parts—Cylinders 9/12/18, 12/1/19 Slides 30/9/18 etc Covers 12/2/19 etc Pistons 14/11/18 etc Rods 22.8.18 Connecting rods 22.8.18 Crank shaft 18.12.18 Thrust shaft 5/10/18 Tunnel shafts 10/10/18 Screw shaft 10.12.18 Propeller 27.3.19

Stern tube 25/12/18 Steam pipes tested Engine and boiler seatings Engines holding down bolts Completion of pumping arrangements Boilers fixed Engines tried under steam

Main boiler safety valves adjusted Thickness of adjusting washers Material of Crank shafts Steel Identification Mark on Do. LLOYDS 25.12.18 Material of Thrust shafts Steel Identification Mark on Do. Y.J. R. Material of Tunnel shafts Steel Identification Marks on Do. LLOYDS 5.10.18; 10.10.18 and 30.9.18 Material of Screw shafts Steel Identification Marks on Do. LLOYDS 4.12.18 Material of Steam Pipes Y.J. R. Test pressure Spare set sh. Y.J. R. LINER FITTED 28.3.19

General Remarks (State quality of workmanship, opinions as to class, &c.)

Mark on spare crank shaft:— LLOYDS 25.12.18 Y.J. R.

These engines have been made & fitted together at the Kubota Iron Works Osaka under Special Survey & in accordance with the Rules & the materials & workmanship have been found good. The steel forgings (excepting two tunnel shafts made at the Masorau Nippon Steel Works) have been forged & rough turned at the Kobe Steel Works.

The engines have been sent to Yokohama to be fitted on board.

A. J. J.

The amount of Entry Fee .. £ : : When applied for, 2nd May 1919 Special .. £ : : When received, 13 May 1919 Donkey Boiler Fee .. £ : : Travelling Expenses (if any) £ : 20:

Y. Jo. Assist. Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

Assigned

FRI JUL 18 1919



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