

AIR RECEIVERS:—Have they been made under survey Yes ✓ State No. of report or certificate AR-10628 A+B

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes ✓

Can the internal surfaces of the receivers be examined and cleaned Yes ✓ Is a drain fitted at the lowest part of each receiver Yes ✓

Injection Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
Seamless, welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -
by Rules Actual -

Starting Air Receivers, No. 2 ✓ Total cubic capacity 2 x 12 cub. meter Internal diameter 1,800 mm thickness Shell 3.2 mm End 5.2 mm
Seamless, welded or riveted longitudinal joint Class I Fusion welded Material Boiler quality steel Range of tensile strength (70) End 27.8 Working pressure by Rules 30 kg/cm² Actual 30 kg/cm²

IS A DONKEY BOILER FITTED Yes ✓ If so, is a report now forwarded Yes ✓

Is the donkey boiler intended to be used for domestic purposes only and for tank heating and cargo raise ✓

PLANS. Are approved plans forwarded herewith for shafting Kob. 22 July 1953 Receivers Kob. 4 May 1953 12 Jun 1953 10 Aug 1953 Separate fuel tanks Kob. 3 Aug 1953
(If not, state date of approval)

Donkey boilers Kob. 15 July 1953 General pumping arrangements Kob. 5 Dec 1953 Pumping arrangements in machinery space Kob. 6 Oct 1953

Oil fuel burning arrangements Kob. 18 Jan 1954

Have Torsional Vibration characteristics been approved Yes Date of approval Kob. 22 July 1953

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied

Eight - Fuel oil needle valves, Six sets - Piston rings,
Five sets - Rubber rings for liner joint, Two - Main bearing belts and nuts.

The foregoing is a correct description,

J. Matsuoka
NAGASAKI WORKS MANUFACTURER.

Dates of Survey while building
During progress of work in shops -- 1953. March 10, 13, 30, April 3, 4, 8, 9, 10, 14, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, May 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, June 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Aug 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Sept 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Oct 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Nov 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Dec 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 1954. Jan 6, 11, 12, 13, 14, 18, 20, 22, 28, Feb 9.
During erection on board vessel -- 1953. Oct 27, 28, 30, Nov 10, 12, 19, 21, 26, 30, Dec 3, 5, 9, 10, 15, 19, 22, 26, 29, 1954. Jan 6, 11, 12, 13, 14, 18, 20, 22, 28, Feb 9.
Total No. of visits 94

Dates of examination of principal parts—Cylinders 14.7.53, 22.8.53 Covers 4.8.53, 19.9.53 pistons 9.7.53, 22.8.53 Rods - Connecting rods 4.8.53, 5.9.53

Crank shafts 10.7.53, 24.8.53 Flywheel shaft - Thrust shaft 10.7.53, 24.8.53 Intermediate shafts 5.10.53, 19.10.53 Tube shaft -

Screw shafts 19.10.53, 20.10.53 Propellers 2.10.53, 9.10.53 Stern tube 16.10.53 Engine seatings 12.1.54 Engine holding down bolts 20.1.54

Completion of fitting sea connections 2.1.10.53 Completion of pumping arrangements 22.1.54 Engines tried under working conditions 22.1.54

Crank shaft, material Forged steel Identification marks M-1053594F, M-1057694F Flywheel shaft, material, - Identification mark -

Thrust shaft, material Forged steel Identification mark M-10307, MSF-614 Intermediate shafts, material Forged steel Identification marks M-10465, M-10654

Tube shaft, material - Identification mark - Screw shafts material Forged steel Identification mark M-10466 A+B

Identification marks on air receivers Nos. 54 & 55 No. AR-10628 A+B M.O. R. 13.10.53, M-22 No. AR-10630 M.O. R. 29.10.53

No. A-26 No. AR-10629 M.O. R. 29.10.53

Welded receivers, state Makers' Name Nagasaki Works, Mitsubishi Zosen K. K.

Is the flash point of the oil to be used over 150°F Yes

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with Yes

Description of fire extinguishing apparatus fitted CO₂ Extinguisher with deflector; Total 169 bottles (255 litre) stored amidship tween deck and opened to peak's stores mailroom hold's tweendeck & mail space. weather deck; Total 19 x 70 mm dia water hose couplings; Engine space & galley; Total 12 x 40 mm dia water hose couplings and 10 x 1/2 litre portable bottles. Mech space; 4 x 70 mm dia water hose couplings; 11 portable bottles; 2 bath apparatus; 27 x CO₂ nozzle openings, each 2.5 lengths steam smothering pipes under main engines & donkey boiler; 4 x 70 mm dia water hose couplings in shaft tunnel.

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo Yes If so, have the requirements of the Rules been complied with Yes

If the notation for ice strengthening is desired, state whether the requirements in this respect have been complied with -

Is this machinery duplicate of a previous case Yes If so, state name of vessel T.M.T. "ARITA-MARU"

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

These machines have been constructed under Special Survey in accordance with the Rules, Approved plans and Secretary's letter.

The material and workmanship are good.

On completion, these machines were installed in the vessel in accordance with the Rules.

Appliances tested under full working condition, and eligible in our opinion for classification with the records of

+ L.M.C. 2.54 DBS 2.54 7 Kg per sq. cm. and TS(C4) 2.54

NOTE: Tick over speed have been noted at sea trial, Port 39 r.p.m. Starboard 41 r.p.m.

The amount of Entry Fee ... £1,151.200 :

Special ... £ :

Donkey Boiler Fee... £ :

Travelling Expenses (if any) £ :

When applied for JUN 25 1954 19
LOCALLY
When received 19

Peter Munson of Canada
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUESDAY 31 AUG 1954

Assigned

+ LMC 2.54 Oil Eng.
DB 100 lb. ch.



Lloyd's Register Foundation

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

13/1/54