

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8499.

Received at London Office

10 JUL 1934

Date of writing Report

19

When handed in at Local Office

19

Port of Kobe

Date in Survey held at

Kobe

Date, First Survey 28-3-33

Last Survey

11-1-1934

No. of Book.

Number of Visits

No. 771 on the

Single

Screw vessel

"GETSUYO MARU"

Tons { Gross 7508.88  
Net 5521.44

Built at Nagasaki

By whom built Mitsubishi Zosen Kaisha Ltd. Yard No. 552 When built

Owners Toyo Kisen Kabushiki Kaisha.

Port belonging to

Engines made at Kobe

By whom made Mitsubishi Zosen Kaisha Ltd. Contract No. 411 412 413 When made 1933 1934

Generators made at Nagasaki

By whom made "Deuki" " " Contract No. When made

No. of Sets 3 Engine Brake Horse Power Nom. Horse Power as per Rule Total Capacity of Generators Kilowatts.

L ENGINES, &amp;c.—Type of Engines Mitsubishi M.R.A.3. 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 47 kg/cm<sup>2</sup> Diameter of cylinders 250 mm Length of stroke 380 mm No. of cylinders 3 No. of cranks 3

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 294 mm Is there a bearing between each crank yes

Revolutions per minute 400 Flywheel dia. 1400 mm Weight 2155 kg. Means of ignition Compression Kind of fuel used Diesel oil.

Crank Shaft, dia. of journals as per Rule 155 mm Crank pin dia. 155 mm Crank Webs Mid. length breadth 226 mm Thickness parallel to axis

as fitted 155 mm Mid. length thickness 83 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule 155 mm Intermediate Shafts, diameter as fitted Thickness of cylinder liners 24 mm

Is there a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Forced lubrication

Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Rugged silencer. Water cooled.

Cooling Water Pumps, No. One, cyl dia 100 mm Stroke 38 mm Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size One, cyl dia 60 mm, stroke 38 mm

Air Compressors, No. Two sets No. of stages 3 Diameters 70 x 270 x 310 Stroke 180 mm Driven by Auxiliary Engine.

S scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—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 yes What means are provided for cleaning their inner surfaces scrubbing.

Is there a drain arrangement fitted at the lowest part of each receiver yes

High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Starting Air Receivers, No. One Total cubic capacity 267 litres Internal diameter 21" thickness 7/8"

Seamless, lap welded or riveted longitudinal joint D. riveted Material Steel Range of tensile strength 28-32 Working pressure by Rules 646 lb

ELECTRIC GENERATORS:—Type Multipole

Pressure of supply 225 volts. Load 400 Amperes. Direct or Alternating Current Direct.

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes

Generators, do they comply with the requirements regarding rating yes are they compound wound yes

Are they over compounded 5 per cent. yes, if not compound wound state distance between each generator

Is there an adjustable regulating resistance fitted in series with each shunt field yes Are all terminals accessible, clearly marked, and furnished with sockets yes

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

PLANS. Are approved plans forwarded herewith for Shafting 28-7-32 Receivers 25-2-33. Separate Tanks

SHAFTING. (If not, state date of approval)

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The foregoing is a correct description,

T. Mabe.

Manufacturer.



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Lloyd's Register  
Foundation

007088-007099-0103



Dates of Survey while building { During progress of work in shops - 1933 - March 28, April 4, 6, 11, 17, 20, 25, 26, May 10, 22, 31, June 2, 6, 10, 17, 19, 21, 23, July 5, 7, 10, 13, 14, 20, 24, 26, Aug. 2, 9, 17, 18, 25, Sept. 1, 4, 5, 11, 13, 16, 24, 25, 28, Oct. 3, 7, 13, 16, 18, Nov. 6, 11, 16, 24, 25, Dec. 4, 7, 9, 12, 16, 19, 27, 1934 - January 11.  
 { During erection on board vessel -  
 { Total No. of visits

Dates of Examination of principal parts - Cylinders 20, 24-7-33 13-10-33 Covers 2-8-33 13-9-33 Pistons 21, 28, 29-6-33 13-7-33 Piston rods

Connecting rods 17-8-33 4-9-18-10-33 Crank and Flywheel shaft 25-8, 4, 11, 21-9-33 7, 18, 23-10-33 6-11-33 Intermediate shaft

Crank and Flywheel shaft, Material Steel Identification Mark no. 3786 7-10-33 no. 3744 6-11-33 no. 3745 6-11-33 K.K.R. Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.V. NICHIO MARU

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

The machinery herein described has been constructed under Special Survey in accordance with the Rules and approved plans. The materials and workmanship are good. The machinery has been tried on the test bed under full load, overload, and governor tests when connected to their generators: parallel running tests were also carried out and all found satisfactory and eligible in my opinion for classification. The machineries have been shipped to Nagasaki where it is intended to install them on board Ship No. 552.

Stamped as follows:-

No. 411	No. 412.	No. 413.
LLOYD'S	LLOYD'S	LLOYD'S
No. 53 R	No. 54 R	No. 55 R
KK 11-1-34	KK 11-1-34	KK 11-1-34

This machinery has been installed on board, tested under full load <sup>9 overload</sup> and found satisfactory.

1m, 7, 26 - Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... Ten 600/- When applied for, 18/1/1934 Travelling Expenses (if any) £ : ✓ When received, 19

H.B. Buchanan K. Kishigami Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 13 JUL 1934 Assigned See other report Vol. FE 1972