

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8783

Received at London Office -4 JAN 1935

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

Port of

No. in Survey held at  
Reg. Book.

Date, First Survey

Last Survey

19

Number of Visits

90510 on the <sup>Single</sup>  
Twin <sup>Triple</sup>  
Screw vessel "N O S H I R O M A R U"Tons { Gross 7183.61  
Net 4317.80

Built at Nagasaki

By whom built

Mitsubishi Jukogyo Kaisha Nagasaki

Yard No. 581

When built 1934

Owners Nippon Yusen Kabushiki Kaisha.

Port belonging to

Tokio.

Oil Engines made at Kobe Works By whom made Mitsubishi Jukogyo K. Contract No. 464. When made

Generators made at Nagasaki Works By whom made Mitsubishi Denki K. Contract No. When made

No. of Sets 1 Engine Brake Horse Power 32 Nom. Horse Power as per Rule Total Capacity of Generators 20 Kilowatts.

OIL ENGINES, &amp;c.—Type of Engines M.B. vert. trunk piston, MRW-2, 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 55 Kp/cm<sup>2</sup> Diameter of cylinders 150 mm Length of stroke 230 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 175 mm Is there a bearing between each crank yes

Revolutions per minute 650 Flywheel dia. 840 mm Weight 490 Kp. Means of ignition Spark inj. Kind of fuel used Heavy oil.

Crank Shaft, dia. of journals as per Rule 92 mm Crank pin dia. 92 mm Crank Webs Mid. length breadth 136 mm Thickness parallel to axis shrunk Mid. length thickness 48 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 19 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced feed.

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

Cooling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes See Li. 14/12/34

Lubricating Oil Pumps, No. and size 1 geared pump.

Air Compressors, No. No. of stages Diameters Stroke Driven by

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 Hand hole

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. 1 Total cubic capacity 35 liter Internal diameter 190 mm thickness 7.5 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material steel Range of tensile strength 28-35 Kp/cm<sup>2</sup> Working pressure by Rules 30 Kp/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type 20 KW.

Pressure of supply 225 volts. Load 133 89. Amperes. Direct or Alternating Current D.C.

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

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

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

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

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

PLANS. Are approved plans forwarded herewith for Shafting 18-12-33, Receivers 30-11-33 Separate Tanks

(If not, state date of approval)

SPARE GEAR

The foregoing is a correct description,

A. A. A. A. A. Manufacturer.



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Foundation

009256 - 009266 - 0075



1934 - Jan-30, Feb-2, 24, March-29, 31, April-7, 12, Aug-2, 13, 15.

Dates of Survey while building { During progress of work in shops - - }  
 { During erection on board vessel - - - }  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 2-8-34 Covers 2-8-34 Pistons 31-3-34 2-8-34 Piston rods  
 30-1, 21-2, 9-4-34  
 Connecting rods 12-4, 2-8-34 Crank and Flywheel shaft 2-8-34 Intermediate shaft

Crank and Flywheel shaft, Material Steel Identification Mark No. 466 KK 15-5-34 Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel Nagasaki ship no. 580.

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 its generator, and all found satisfactory and eligible in my opinion for classification. The machinery have been shipped to their Nagasaki Works, where it is intended to install them on board ship No. 580.  
 Stamped as follows:-

Mach No. 464  
 LLOYDS  
 No. 74 R  
 KK 15-8-34

This machinery has been efficiently installed on board, and tried under full load, overload, governor and air compressing tests and found satisfactory.

The amount of Fee ... ¥ 150.- :  
 Travelling Expenses (if any) £ :

When applied for, 19...  
 When received, 13/11/34

Committee's Minute TUE. 8 JAN 1935

Assigned

See Vol. 26. 2005

*R. H. Buchanan*  
 Surveyor to Lloyd's Register of Shipping.



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