

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 7814.

Received at London Office

12 JUL 1932

Date of writing Report June 10th 1932 When handed in at Local Office 25 June 1932 Port of Kobe

No. in Survey held at Kobe Date, First Survey 8-7-31 Last Survey 2-6-32 19

Reg. Book. Single on the Twin Triple Quadruple Screw vessel (Nagasaki Yard N°501) Tons Gross Net

Built at Nagasaki By whom built Mitsubishi Dockyard Co Yard No. 501 When built 1932

Owners Mitsui Osaka Steam Kaisha Port belonging to Osaka

Oil Engines made at Nagasaki By whom made Mitsubishi Dockyard Co Contract No. 501 When made

Generators made at " By whom made " Contract No. " When made

No. of Sets 3 Engine Brake Horse Power 350 Nom. Horse Power as per Rule " Total Capacity of Generators 600 Kilowatts.

OIL ENGINES, &c.—Type of Engines Mitsubishi Vickers solid injection 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 46kg/cm² Diameter of cylinders 400mm Length of stroke 450mm No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 456mm Is there a bearing between each crank Yes

Revolutions per minute 340 Flywheel dia. 1700mm Weight 5,080 Kg. Means of ignition Compression Kind of fuel used Heavy Diesel oil

Crank Shaft, dia. of journals as per Rule 218mm as fitted 235mm Crank pin dia. 235mm Crank Webs Mid. length breadth 350mm Mid. length thickness 123mm Thickness parallel to axis shrunk Thickness around eyehole "

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 37.5mm

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

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

Cooling Water Pumps, No. 1 off 140mm dia. 40mm stroke Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size one off 80mm dia. 40mm stroke connected to end of crank shaft

Air Compressors, No. Two sets (as N°3240) No. of stages 3 Diameters 80x310x360mm Stroke 180mm Driven by Generators through magnetic clutches

Scavenging Air Pumps, No. Yes Diameter Yes Stroke Yes Driven by Yes

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 Yes

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

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

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

Starting Air Receivers, No. Made at Nagasaki Total cubic capacity Yes Internal diameter Yes thickness Yes

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

ELECTRIC GENERATORS:—Type Multipole (Tested at Nagasaki Cut N°531)

Pressure of supply 225 volts. Load 890 Amperes. Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second Yes

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off To be tried on board

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 Yes

is 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 Crank shaft 8-9-31 Receivers Yes Separate Tanks Yes

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List to be forwarded later.

The foregoing is a correct description,
KOBÉ SHIPYARD & ENGINE WORKS, M. Z. K., LTD.,

K. Nakamura
General Manager

Manufacturer.



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Lloyd's Register
Foundation

006930-006941-0115

Dates of Survey while building { During progress of work in shops - July 8. Aug: 14-19-27-31. Sept. 7-11-29-30. Oct. 9-10-16-23-26-27-29-30-31. Nov: 2-4-7-10-11-24. Dec: 2-4-12-15-26. 1931
 During erection on board vessel - - - - - Jan: 9-12. Feb: 22. Mar: 4-8-11-22-23-24. April: 2-4-15-16-20-21-30. May 6-19. 31-23-27-28. June 2nd 1932.
 Total No. of visits 52.

Dates of Examination of principal parts—Cylinders 29-10-31 30-10-31 7-11-31 Covers 4-12-31 12-12-31 26-12-31 Pistons 2/11/31 30-31/10/31 Piston rods ✓
 Connecting rods 2-11-31 & 7-11-31 Crank and Flywheel shaft 21-10-31 10-11-31 12-12-31 Intermediate shaft ✓
 Crank and Flywheel shaft, Material 24 Steel Identification Mark R.N. 3117 " 3127 " 3122. Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case No If so, state name of vessel ✓

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 requirements of the Rules & approved plans, the materials have been tested, found efficient & the workmanship throughout is good. They have been tried under full load, overload, & governor tests when connected to dynamometers & afterwards when connected to their respective generators, parallel running tests were also carried out & all found satisfactory.

These machines are eligible in my opinion to have the Record of + L.M.C. in the Register Book.

They have now been shipped to Nagasaki where it is intended to install them on board ship N^o 501. Having been stamped as follows.

ENG. N^o 138
 LLOYD'S N^o 38
 H.D.B. R.
 28-5-32

ENG. N^o 139
 LLOYD'S N^o 39
 H.D.B. R.
 28-5-32

ENG. N^o 140
 LLOYD'S N^o 40
 H.D.B. R.
 28-5-32

Hawell Nagasaki Rept.

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

The amount of Fee ... £ 975⁰⁰ : When applied for, 4th June 1932.
 Travelling Expenses (if any) £ 80⁰⁰ : When received, 25th / 6 / 1932

H.D. Buchanan,
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 3 MAR 1933

Assigned See Nag. 1869