

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS. No. 8433.

25 JAN 1934

Received at London Office

Writing Report 19 When handed in at Local Office 19 Port of Kobe
Survey held at Kobe. Date, First Survey 2nd Dec 1932. Last Survey 1st Dec 1933.
Number of Visits 20.

of 58 on the Twin Triple Quadruple Single Screw vessel Single Screw M.S. "KOMAKI MARU"
Tons Gross 6468.06 Net 3812.37

Oh Harima By whom built Harima Shipbuilding Co Ltd Yard No. 189 When built 12.33.
Kokusai Kisen Kabushiki Kaisha Port belonging to Kobe

Engines made at Kobe Steel Works By whom made Kobe Steel Works Contract No. - When made 1933
Motors made at Yokohama By whom made Fuji Denki Kaisha K.K. Contract No. - When made 1933

Sets 3. Engine Brake Horse Power 270 Nom. Horse Power as per Rule Total Capacity of Generators 540 Kilowatts.

ENGINES, &c. Type of Engines Airless Injection 2 or 4 stroke cycle 4 Single or double acting Single
Mean pressure in cylinders 45 kg/cm² Diameter of cylinders 290 mm Length of stroke 430 mm No. of cylinders 5 No. of cranks 5

Bearings, adjacent to the Crank, measured from inner edge to inner edge 349 mm Is there a bearing between each crank yes
Revolutions per minute 330 Flywheel dia. 1400 mm Weight 3241 kgs Means of ignition Compression Kind of fuel used Heavy oil

Shaft, dia. of journals as per Rule 161.5 as fitted 184 mm Crank pin dia. 184 mm Crank Webs Mid. length breadth 282 mm Thickness parallel to axis 93 mm
Mid. length thickness 93 mm Thickness around eye-hole

Intermediate Shafts, diameter as per Rule 184 as fitted 184 mm Thickness of cylinder liners 26 mm & 30 mm

Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes
Internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces marl
A drain arrangement fitted at the lowest part of each receiver yes

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness
Lap welded or riveted longitudinal joint Material Range of tensile strength 25 Working pressure by Rules
Air Receivers, No. 200 Total cubic capacity 500 litres Internal diameter 225 mm thickness 14 mm

Lap welded or riveted longitudinal joint I.R.D.B.S. Material M.S. Range of tensile strength 38 to 32 Working pressure by Rules 30 kg/cm²

ELECTRIC GENERATORS: Type Direct Current Multipolar Compound
Voltage of supply 225 volts Load 180 K.W. 800 Amperes. Direct or Alternating Current D.C.

Rating current system, state frequency of periods per second
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
Over compounded 5 per cent. yes, if not compound wound state distance between each generator

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

Are approved plans forwarded herewith for Shafting 2/12/32 Receivers yes 9.12.32 Separate Tanks yes
(If not, state date of approval)

GEAR 3 cylinder covers, 3 liners, 3 sets of suction valves, 6 sets delivery valves, 6 sets
of valves, 6 fuel oil pipes, 30 fuel ball valves, 9 fuel sprayer valves, 3 starting valves,
3 cover safety valves, 3 pistons, 90 piston rings, 3 sets of connecting rod top &
bottom end brasses with bolts & nuts, 1 set of cam shaft gearing, 1 set of governor gearing
to of main bearing brasses, 3 sets of fuel cam shafts, 1 set of valves for starting air
inlet, 1 set of springs for each size used, 3 sets of ball bearing brasses, 8 sets
of oil pump valves, 1 fuel pump complete, 1 set of lubricating oil pump gearing
of fuel oil pump gearing, 8 main bearing bolts with nuts & pins
for pipes for oil cooler, a quantity of assorted bolts & nuts etc.

The foregoing is a correct description,

Manufacturer G. Shimoda

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006857-006867-0273

Dates of Survey while building { During progress of work in shops - - } Dec. 1932. 2. 14. March 29. 31 April 17. May 9. 18 June 4 8 12 20. 30 July 4. C.
 { During erection on board vessel - - - } 4. 8. 33. 24. 8. 33. 1. 12. 33.
 Total No. of visits 20.

Dates of Examination of principal parts—Cylinders 18. 3. 33. Covers 18. 2. 33. Pistons 29. 3. 33. Piston rods ✓

Connecting rods 29. 3. 33. Crank and Flywheel shaft 7. 4. 33. 18. 4. 33. 29. 3. 33. Intermediate shaft ✓

Crank and Flywheel shaft, Material Stud. Identification Mark N° 3441 7. 4. 33. 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 engine was constructed under special survey in accordance with the requirements of the Rules; The workmanship and materials are good and on completion the engine and generator were efficiently installed in the vessel and tried under full power & found to be in good condition & eligible in our opinion for the Record of ELECTRIC LIGHT.

1m. 7. 33—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 825. : When applied for, 4/9/19.33
 Travelling Expenses (if any) £ : When received, 27/10/19.33

M. L. Larnett & A. E. Munro
 Surveyors to Lloyd's Register of Shipping

Committee's Minute TUE. 30 JAN 1934
 Assigned See other Rpt. Kob 8433