

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8433.

Received at London Office

26 JAN 1934

Writing Report 19 When handed in at Local Office 19 Port of Kobe

Survey held at Kobe Date, First Survey 4 April 1933 Last Survey 1.12.33 19  
Number of Visits 17.

3. on the Single Twin Triple Quadruple Screw vessel Single Screw M.S. KOMAKI MARU. Tons { Gross 6468.06  
Net 3812.37

at Osaka Harima By whom built Harima Shipbuilding Co Ltd Yard No. 189. When built 12.33.

Nokusai Kisen Kabushiki Kaisha Port belonging to Kobe.

Engines made at Kobe By whom made Kobe Steel Works Contract No. ✓ When made 1933.

Generators made at Yokohama By whom made Fuji Denki Seizo K.K. Contract No. ✓ When made 1933.

Sets 1 Engine Brake Horse Power 46.5 Nom. Horse Power as per Rule ✓ Total Capacity of Generators 30. Kilowatts.

ENGINES, &c.—Type of Engines Airless Injection 2 or 4 stroke cycle 4 Single or double acting single

Working pressure in cylinders 45 kg/cm<sup>2</sup> Diameter of cylinders 165 mm Length of stroke 245 mm No. of cylinders 3. No. of cranks 3.

Bearings, adjacent to the Crank, measured from inner edge to inner edge 182 mm Is there a bearing between each crank yes

Revolutions per minute 550 Flywheel dia. 900 mm Weight 292 Kgs Means of ignition Airless injection Kind of fuel used Crude oil

Shaft, dia. of journals as per Rule 69.21 Crank pin dia. 100 mm ✓ Crank Webs Mid. length breadth 145 mm ✓ Thickness parallel to axis ✓  
as fitted 100 mm ✓ Mid. length thickness 50 mm ✓ Thickness around eye hole ✓

Intermediate Shafts, diameter as per Rule ✓ as fitted ✓ Thickness of cylinder liners 17.5 mm + 12.5 mm

Propeller or other arrangement fitted to prevent racing of the engine when de-clutched yes Means of lubrication Forced

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

Water Pumps, No. ✓ Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

Operating Oil Pumps, No. and size 1 geared P.C.P. of gear 48 mm ✓

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

Operating Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

RECEIVERS:—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 manhole

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 50 lbs Range of tensile strength 300 mm Working pressure by Rules 7.5 mm

Air Receivers, No. Two Total cubic capacity 100 litres ✓ Internal diameter 340 mm ✓ thickness 7.5 mm ✓

Lap welded or riveted longitudinal joint D.B.S.D.R. Material Steel Range of tensile strength 44-56 ✓ Working pressure by Rules 30 kg/cm<sup>2</sup> ✓

ELECTRIC GENERATORS:—Type Compound wound

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

Operating 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

Are 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 1.2.32. Separate Tanks 17.2.32.

(If not, state date of approval)

GEAR

The foregoing is a correct description.

Manufacturer. G. Shimoda



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Dates of Survey while building { During progress of work in shops - - } April 1933. 4.14.20 May. 6.10.18.30 June 4.10.26.28. July 8.26. Aug. 17.  
 { During erection on board vessel - - - } 4.8.33. 24.6.33. 1.12.33.  
 Total No. of visits 17.

Dates of Examination of principal parts—Cylinders 26.7.33 Covers 17.8.33 Pistons Piston rods

Connecting rods 26.4.33 Crank and Flywheel shaft 11.3.33 Intermediate shaft ✓

Crank and Flywheel shaft, Material *Steel* Identification Mark <sup>65095 B</sup> <sup>LLOYD'S</sup> <sup>N° 3426</sup> <sup>11.3.33 HAC.</sup> Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.) *The engine has been constructed under special survey in accordance with the requirements of the Rules; the materials and workmanship are good & on completion the engine & generator were efficiently installed in the vessel & tried under full power & found to be in good condition*

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

The amount of Fee ... £ 150. : : When applied for, 29/8/19.33  
 Travelling Expenses (if any) £ : : When received, 26/9/19.33

*M. T. Garnett* *A. E. Munro*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE, 30 JAN 1934  
 Assigned *See other Rpt. Kob. 8/23*

