

2d.28

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 7356

8 JUN 1931

Date of writing Report 20-5-1931 When handed in at Local Office 20-5-1931 Port of Kobe

Received at London Office

No. in Survey held at Reg. Book.

Date, First Survey April 28th 1930 Last Survey March 7th 1931.

Number of Visits 36.

Single on the Twin Triple Quadruple } Screw vessel

Katsuragai Maru

Tons } Gross } Net

Built at By whom built Uraga Dockyard Co. Yard No. 374. When built

Oil Engines made at Jama. By whom made Mitsui Bussan Kaisha Contract No. 15, 16, 17 When made 4-31

Generators made at Shibaura, Tokio By whom made Shibaura Seisaku-Sho Ltd Contract No. 3040445, 3040446, 3040447 When made 8-30.

No. of Sets 3 Engine Brake Horse Power 210 Nom. Horse Power as per Rule 46.9 Total Capacity of Generators 405 Kilowatts.

OIL ENGINES, &c.—Type of Engines Mitsui-Burmeister 428-MTHK-45 or 4 stroke cycle 4 Single or double acting Single.

Maximum pressure in cylinders 36 Kg/cm² Diameter of cylinders 280 mm Length of stroke 450 mm No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 358 mm Is there a bearing between each crank Yes

Revolutions per minute 300 Flywheel dia. 1540 mm Weight 5000 kgs. Means of ignition due to Compression Kind of fuel used Heavy diesel oil.

Crank Shaft, dia. of journals as per Rule 166 mm as fitted 180 mm Crank pin dia. 180 mm Crank Webs Mid. length breadth 415 mm Thickness parallel to axis ✓ Mid. length thickness 95 mm shrunk Thickness around eyehole ✓

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

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

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

Cooling Water Pumps, No. One on each Engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size One on each Engine, gear pump P.C.D = 216 mm and 108 mm

Air Compressors, No. One for each Engine No. of stages 2 Diameters HP. 280 mm / LP. 320 mm Stroke 210 mm Driven by Each diesel Engine.

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 By 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 300 litre Internal diameter 450 mm Thickness 13 mm

Seamless, lap welded or riveted longitudinal joint lap welded Material Steel Range of tensile strength Working pressure by Rules 7.94

ELECTRIC GENERATORS:—Type Three-Compound Wound, direct current, 135 KW. Generators

Pressure of supply 220 volts. Load 614 Amperes. Direct or Alternating Current Direct current.

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 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 29-5-30. Receivers Separate Tanks

SPARE GEAR As per the Rule, checked and found satisfactory

The foregoing is a correct description.

J. Yamamoto, Manufacturer.



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007658-007657-0284

Dates of Survey while building
 During progress of work in shops - - 1930: Apr. 28, 30, May 12, 20, 22, June 30, July 4, 8, 10, 15, 22, Aug. 6, 12, 19, Sept 22, 26.
 During erection on board vessel - - - Oct. 6, 14, 23, 24, 28, 31, Nov. 5, 21, 25, Dec. 3, 4, 10, 11, 20, 22: 1931: Jan. 30, Feb. 16, 19, Mar. 2, 7.
 Total No. of visits 36.

Dates of Examination of principal parts—Cylinders 20-10-30 to 28-10-30 Covers Same as cylinders 15-7-30 Piston rods and Connecting rods 4-7-30 to 22-9-30 Crank and Flywheel shaft 13-9-30 (Kobe) to 24-10-30 (Yama) intermediate shaft ✓

Crank and Flywheel shafts, Material Forged Steel Identification Mark See below

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.)

Identification marks on crank shafts:-

- LLOYD'S No. 2836. R A.D.M. 13-9-30
- LLOYD'S No. 2852 R ADM 30-9-30
- LLOYD'S No. 2865 R A.D.M. 10-10-30

Marks on Generators:-

LLOYD'S No. 233 R 25-8-30 J. F. N.	LLOYD'S No. 234 R 25-8-30 J. F. N.	LLOYD'S No. 235 R 29-8-30 J. F. N.
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The machinery herein described has been constructed under special survey in accordance with the Rules and approved plans; the material and workmanship are good and on completion the machinery has been coupled with generator and tested under full working and parallel running conditions and found to be efficient and eligible, in my opinion, to have record of ✕ LMC - with date - when the survey has been completed.

The machinery is being forwarded to Uraga for installation in the vessel No. 374 Uraga Dockyard Co., Ltd.

A copy of the report is being forwarded to Yokohama Surveyors.

H. D. Buchanan & self.

K. Kibigami
 Surveyor to Lloyd's Register of Shipping.

The amount of Fee £	:	:	When applied for,
			19.....
Travelling Expenses (if any) £	:	:	When received,
			19.....

Committee's Minute
 Assigned

Recd for filing 31/12/34

