

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 7356.

YK. NO. 4786.

2 NOV 1931

Received at London Office

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

in Survey held at Kobe & Yokohama

Date, First Survey

Last Survey

19

Book.

Number of Visits

Single
on the ~~Two~~
Triple
Quadruple

Screw vessel M.V. "KATSURAGI MARU"

Tons { Gross 5841
Net 3485

Built at Uraga

By whom built Uraga Dockyard Co.

Yard No. 374. When built 1931.

Owners Kikusai Kisen Kaisha

Port belonging to Hashidate

Engines made at Jima.

By whom made Mitui Bussan Kaisha

Contract No. 15.16.17 When made 4-31

Generators made at Shibaura Tokyo

By whom made Shibaura Seisakusho Ltd

Contract No. 304045 When made 8-30

of Sets 3 Engine Brake Horse Power 210 Nom. Horse Power as per Rule 46.9 Total Capacity of Generators 405 Kilowatts.

ENGINES, &c.—Type of Engines Mitui-Burmeister 428-MTHK-45 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 35 kg/cm² Diameter of cylinders 280 mm Length of stroke 450 mm No. of cylinders 4 No. of cranks 4

No. 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 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 Mid. length breadth 415 mm Thickness parallel to axis

Crank Webs Mid. length thickness 95 mm shrunk Thickness around eyehole

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

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 water 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.

Compressors, No. One on each engine No. of stages 2 Diameters 280 mm / 320 mm Stroke 210 mm Driven by Each Diesel Engine.

Sucking Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Are 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

Material Range of tensile strength Working pressure by Rules

Sucking Air Receivers, No. 1 Total cubic capacity 300 litre Internal diameter 450 mm thickness 13 mm.

Material Range of tensile strength Working pressure by Rules

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

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

Alternating current system, state frequency of periods per second

Is 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

Do they over compound 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

Are approved plans forwarded herewith for Shafting 29-5-30 Receivers Separate Tanks

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The foregoing is a correct description,

Manufacturer.



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Lloyd's Register
Foundation

007658 007667 00283

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 Oct. 6. 14. 23. 24. 28
During erection on board vessel - 31. 7. 10. 15. 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 cyl. Pistons 15-7-30 Piston rods

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 shaft, 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
No. 2852 " " 30-9-30
No. 2865 " " 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.

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 generators and tested under full working and parallel running conditions, and found to be efficient and eligible, in my opinion, to have record of L.M.C. 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.

Yokohama.

This machinery has been fitted onboard the vessel at Uraga under special survey in accordance with the Rules. On completion of installing, all tried under full working condition with satisfactory results.

This machinery together with the main engines etc., is eligible in my opinion to be classed L.M.C. 10-31, in the Register Book.

H. D. Buchanan & self.

K. Kishigawa
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 FRI. 13 NOV 1931

Assigned

See F.C. Rpt.



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