

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8786.

Received at London Office

-5 NOV 1934

Date of writing Report 19-10-1934 When handed in at Local Office

Port of

KOBE

No. in Survey held at Kobe
Reg. Book.

Date, First Survey 3-10-33

Last Survey 14-9-1934

Number of Visits 56.

Single
on the Twin
Triple
Quadruple
Screw vessel

M/Y "KIYOSUMI MARU"

Tons { Gross 6992.
Net 3829.

Built at KOBE.

By whom built Kawasaki Dockyard

Yard No. 583 When built 1934.

Owners KOKUSAI KISEN KABUSHIKI KAISHA

Port belonging to TOKIO.

Oil Engines made at Kobe

By whom made Kobe Works, M.B. J.K.

Contract No. 475/476/477 When made 1934

Generators made at Nagasaki

By whom made Nag. Works, M.B. Denki K.

Contract No. When made 1934

No. of Sets 3. Engine Brake Horse Power 290. Nom. Horse Power as per Rule Total Capacity of Generators 540 Kilowatts.

OIL ENGINES, &c.—Type of Engines MRB6 Vertical Trunk piston 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 46 Kg/cm² Diameter of cylinders 275 mm Length of stroke 420 mm No. of cylinders 6 No. of cranks 6

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 320 mm Is there a bearing between each crank yes

Revolutions per minute 300 Flywheel dia. 1700 mm Weight 3100 Kg. Means of ignition Compression Kind of fuel used Heavy diesel oil

Crank Shaft, dia. of journals as per Rule As Approved 170 mm Crank pin dia. 170 mm Crank Webs Mid. length breadth 240 mm Thickness parallel to axis shrunk Mid. length thickness 93 mm Thickness around eye hole

Flywheel Shaft, diameter as per Rule As Approved 170 mm Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 26 mm

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

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

Cooling Water Pumps, No. One - 1 1/2 dia 110.5 mm Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size One set - 1 1/2 dia 80 mm, stroke 45 mm, i.p.m. 300. One - Diesel engine

Air Compressors, No. Two No. of stages Three Diameters HP 70 mm MP 310-270 mm LP 310-70 mm Stroke 180 mm Driven by One - Motor

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 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. One Total cubic capacity 550 litre Internal diameter 2'-5" thickness 5/8"

Seamless, lap welded or riveted longitudinal joint T.R.B. Material Steel Range of tensile strength 28-35 ton Working pressure by Rules 30 Kg/cm²

ELECTRIC GENERATORS:—Type Multipole LL type 180 KW. COMPOUND WOUND.

Pressure of supply 225 volts. Load 800 Amperes. Direct or Alternating Current D.C.

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 19-10-33. Receivers 19-10-33. Separate Tanks

SPARE GEAR CYLINDER COVER COMPLETE 2 SETS.

CYLINDER LINER 2 SETS.

SUCTION VALVES 3 SETS.

EXHAUST VALVES 12 SETS.

FUEL VALVES 6 SETS.

MAIN BEARINGS 2 SETS.

CRANK PIN BRASSES & BOLTS 2 SETS.

GUDGEON PIN BRASSES 2 SETS.

COUPLING BOLTS & NUTS 6 SETS.

FUEL PIPES & NUTS & BOLTS ASSORTED.

The foregoing is a correct description,

KOBE WORKS, MITSUBISHI JUKOGYO KABUSHIKI KAISHA

Manufacturer.

Superintendent Engineer.



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Lloyd's Register Foundation

007465-007473-0206

Dates of Survey while building { During progress of work in shops - 1933-Oct-3, 26, Nov-4, 11, 24, 28, 30, Dec-1, 5, 7, 11, 13, 14, 15, 16, 20, 23, 27, 28, 1934-Jan-12, 15, 18
During erection on board vessel - 19 Feb-2, 3, 17, 24, March-14, 20, April-1, May-11, 18, 21, 24, 26, 28, 31, June-4, 13, 15, 16, 22, 23, 25, 28, 29, 30.
Total No. of visits 56

Dates of Examination of principal parts—Cylinders 28-11-33 28-28-5-34 6-7-34 Covers 11-18-5-34 21-29-6-34 6-7-34 Pistons 6-7-34 Piston rods ✓

Connecting rods 15-1-34 2-2-34 20-3-34 6-7-34 Crank and Flywheel shaft 6-7-34 Rmo. 940 24-3-34 945 28-3-34 953 13-3-34 Intermediate shaft ✓

Crank and Flywheel shaft, Material Mild Steel Identification Mark 945 28-3-34 953 13-3-34 Intermediate shafts, Material Identification Marks ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Uraga Dockyard 386.

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 Rules and approved plans. The materials and workmanship are good. The machinery has been tried on the test bed under full load, overload and governor tests when connected to their generator: parallel running tests were also carried out and all found satisfactory and eligible in my opinion for classification.

The machineries have been shipped to Kawasaki Dockyard where it is intended to install them on board ship no. 583.

Stamped as follows:

Mach. no. 475	Mach. no. 476	Mach. no. 477
LLOYD'S	LLOYD'S	LLOYD'S
No. 67 R	No. 68 R	No. 69 R
KK 6-7-34	KK 6-7-34	KK 6-7-34

These generators were afterwards efficiently installed in the vessel, and tried under full working conditions with satisfactory results, and are eligible in our opinion to have the record of "ELECTRIC LIGHT."

The amount of Fee ... £ 975 00

Travelling Expenses (if any) £ :

When applied for,

25 Aug 1934

When received,

4/12/34

Surveyors to Lloyd's Register of Shipping.

Committee's Minute

FRI. 9 NOV 1934

Assigned

See other Nov. J.C. 8786

Rpt. 13.

RE

Date of writing

No. in Reg. Book

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