

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8647.

Received at London Office

16 pt. 4c.

Date of writing Report 12th August 1934 When handed in at Local Office

13/8/34 Port of Yokohama (Kobe)

No. in Survey held at Kobe + Yokohama

Date, First Survey 26th October 1933 Last Survey 28th July 1934

Reg. Book.

Number of Visits 19

10264 on the ^{Single} ~~Triple~~ ~~Quadruple~~ Screw vessel M.V. "KANO MARU"

Tons { Gross 6940 Net 3785

Built at Osaka

By whom built Uraga Dockyard

Yard No. 386 When built 1934-8

Owners K K K

Port belonging to Tokio

Oil Engines made at Kobe

By whom made Mitsubishi Jukogyo K. Kobe Contract No. 470 When made 1934

Generators made at Nagasaki

By whom made Mitsubishi Denki K. Nagasaki Contract No. When made

No. of Sets One Engine Brake Horse Power 50 Nom. Horse Power as per Rule

Total Capacity of Generators 30 Kilowatts.

OIL ENGINES, &c. Type of Engines M.R.W.3. Vertical trunk piston 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 55 kg/cm² Diameter of cylinders 150 mm Length of stroke 230 mm No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 175 mm Is there a bearing between each crank Yes

Revolutions per minute 700 Flywheel dia. 840 mm Weight 494 kg Means of ignition Compression Kind of fuel used Heavy diesel oil

Crank Shaft, dia. of journals as per Rule 92 mm as fitted 92 mm Crank pin dia. 92 mm Crank Webs Mid. length breadth 136 mm Mid. length thickness 48 mm Thickness parallel to axis Thickness around eyehole

Flywheel Shaft, diameter as per Rule 92 mm as fitted 92 mm Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 14 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced feed. Exhaust pipe water cooled.

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

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

Lubricating Oil Pumps, No. and size One - gear pump.

Air Compressors, No. One No. of stages 2 Diameters HP 43 mm LP 140 mm Stroke 130 mm Driven by Aux dyn 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 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. Two Total cubic capacity 120 liter 35 liter Internal diameter 190 mm thickness 3/16" 7.5 mm

Seamless, lap welded or riveted longitudinal joint D.R. Material Steel Range of tensile strength 28-35% Working pressure by Rules 30 kg/cm²

ELECTRIC GENERATORS:—Type Multipole 30 KW.

Pressure of supply 225 volts. Load 133 Amperes. Direct or Alternating Current DC.

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 11-11-33 Receivers 24-10-33 Separate Tanks

SPARE GEAR Spare Gear, as per Spare Gear list received from Nagasaki Surveyors, checked on board and found in order (See separate list with Nagasaki rpt No 1976 dated 26/6/34)

The foregoing is a correct description,

T. Mase.

Manufacturer.



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(401 W184-010)

Dates of Survey while building
 During progress of work in shops - - 1933 - Oct 26. Nov. 4. 22. 28. 30, Dec. 7. 20. 27, 1934 Jan 27. 29, Feb 22. March 28.
 During erection on board vessel - - 12/27/32, 15/6/28/7/1934
 Total No. of visits 19

Dates of Examination of principal parts—Cylinders 27-12-33 Covers 20-12-33 Pistons 22-11-33 Piston rods 26-10, 4.30-11-33.
 Connecting rods 2-2-34 Crank and Flywheel shaft 27.7.29-1-34 Intermediate shaft 28-11. 7-12-33

Crank and Flywheel shaft, Material Forged steel Identification Mark KK 24-1-34 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, etc.)

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 its generator and all found satisfactory and eligible in my opinion for classification.

The machinery has been shipped to Uraga Dockyard where it is intended to install it on board ship No. 386.

Stamped as follows:-

Mach No. 470

LL 0405

No. 62

KK 28-3-34

This emergency generating set has been fitted on board this vessel in accordance with the Rules. On completion of fitting out, all tried under full working conditions with satisfactory results.

G. H. Macdonald Yokohama

1m. 7. 28—Transfer.

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

Committee's Minute

TUE. 2 OCT 1934

Assigned

See JKA JE 5343

Surveyor to Lloyd's Register of Shipping.



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