

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8647.

Received at London Office 17 SEP 1934 (KA-NO 5343)

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 3-10-1933. Last Survey 9th August 1934
 Reg. Book. Number of Visits 60

"10264 on the ^{Single} ~~Twin~~ ^{Triple} ~~Quadruple~~ Screw vessel M.V. "KANO MARU" Tons { Gross 6940 Net 3785

Built at Uraga 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. { 472 473 474 When made 1933 1934
 Generators made at Nagasaki By whom made Mitsubishi Denki K. Nagasaki Contract No. When made

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

IL ENGINES, &c.—Type of Engines M.R.B. 6 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 170 mm Crank pin dia. 170 mm Crank Webs Mid. length breadth 240 mm Thickness parallel to axis 93 mm Mid. length thickness 93 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule 170 mm Intermediate Shafts, diameter as per Rule 26 mm 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

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

Lubricating Oil Pumps, No. and size One set 80% dia x 45% stroke 300 rpm

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 - Diesel Eng. One - Motor

Scavenging Air Pumps, No. Diameter Stroke Driven by

IR 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 cu ft 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% Working pressure by Rules 30 Kg/cm²

ELECTRIC GENERATORS:—Type Multipole LL type 180 K.W.

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 12/2/34

SPARE GEAR Spare Gear, as per Spare Gear list received from Nagasaki Surveyor, checked on board and found in order (See separate list with Nagasaki rpt 1121976 dated 26/6/34)

The foregoing is a correct description,

T. Mase.

Manufacturer.



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Dates of Survey while building	{	During progress of work in shops - -	1933 - Oct. 3, 26, Nov 4, 6, 11, 20, 24, 28, 30, Dec 5, 7, 11, 14, 15, 20, 23, 26, 27, 1934 - Jan 10, 11, 12, 13, 16, pt. 4c.
		During erection on board vessel - - -	18, 19, Feb 1, 2, 3, 5, 17, 26, 27, March 5, 8, 14, 16, 20, 22, 23, 24, 26, 27. Yokohama 11/9/33 12/2 7/3 13, 19, 24 1/4 16, 21, 28/5 8/19, 22, 27 1/6 11, 13, 17, 28/7 9/8/34
		Total No. of visits	60

Dates of Examination of principal parts—Cylinders 12-1-34 Covers 5-2-34 Pistons 16.18-12-33. Piston rods ✓

Connecting rods	12-1-34 15-1-34 2-2-34	Crank and Flywheel shaft	7-12-33 22-12-33	Intermediate shaft	✓
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Q. No. 857 TK22-12-33
848 HDB 7-12-33
874 HDB 13-1-34

Crank and Flywheel shaft, Material Mild Steel Identification Mark 848 HDB 7-12-33 Intermediate shafts, Material V Identification Marks 874 HDB 13-1-34

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.)

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 generators: parallel running tests were also carried out and all found satisfactory and eligible in my opinion for classification.

The machinery have been shipped to Ureya Dockyard where it is intended to install them on board ship no. 386.

Stamped as follows:-

March No. 472	March No. 473	March No. 474
LOYDS	LOYDS	LOYDS
No. 59 <u>R</u>	No. 60 <u>R</u>	No. 61 <u>R</u>
KK 26-3-34	KK 24-3-34	KK 26-3-34

The machinery has been fitted on board this Vessel at Uraga in accordance with the Rules and approved plans. Materials and Workmanship good. On completion of fitting out, all tried under full working conditions with satisfactory results.

The machinery of this Vessel is eligible in my opinion to have the record of
+ L. M. C. 8.34

G. H. Macdonald. Yokohama.

The amount of Fee Yen 975.⁰⁰

When applied for,

616 1934

Travelling Expenses (if any) £

When received,

2/4/34

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 2 OCT 1934

Assigned

See Zka Rpt 5343

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