

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9468

Received at London Office

-1 MAY 1936

Date of writing Report 3rd April 1936 When handed in at Local Office 13th April 1936 Port of Kobe

No. in Survey held at Kobe Date, First Survey May 6th 1935 Last Survey 21st Feb. 1936
Reg. Book. Number of Visits

on the Single Triple Quadruple Screw vessel KINUGASA MARU Tons Gross 6808
Net 3717

Built at Kobe By whom built KAWASAKI DOCKYARD Co. Ltd Yard No. 591 When built 1936

Owners KOKUSAI KISEN KABUSHIKI KAISHA Port belonging to Tokyo

Oil Engines made at Kobe By whom made KAWASAKI DOCKYARD Co. Ltd Contract No. ✓ When made 1936

Generators made at Kobe By whom made KAWASAKI DOCKYARD Co. Ltd Contract No. ✓ When made 1936

No. of Sets 3 Engine Brake Horse Power 234 Nom. Horse Power as per Rule Total Capacity of Generators 480 Kilowatts.

OIL ENGINES, &c. Type of Engines KAWASAKI-MAN 64 V 42 HEAVY OIL 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 49 kg/cm² Diameter of cylinders 285 mm Length of stroke 420 mm No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 328 mm Is there a bearing between each crank yes

Revolutions per minute 380 Flywheel dia. 1800 mm Weight 3000 KGS. Means of ignition Compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 161 mm Crank pin dia. 170 mm Crank Webs Mid. length breadth 280 mm Thickness parallel to axis ✓
as fitted 170 mm Mid. length thickness 90 mm Thickness around eye hole ✓

Flywheel Shaft, diameter as per Rule NONE Intermediate Shafts, diameter as per Rule NONE Thickness of cylinder liners 18 mm
as fitted as fitted

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

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. 3 Independent sea water Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
(Same as for main engine) fresh

Lubricating Oil Pumps, No. and size 1 on each engine - geared type

Air Compressors, No. SOLID INJECTION No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

Scavenging Air Pumps, No. NONE 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 steam

Is there a drain arrangement fitted at the lowest part of each receiver yes

High Pressure Air Receivers, No. none 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 500 LITRES Internal diameter 800 mm thickness 5/8"

Seamless, lap welded or riveted longitudinal joint D.R.O.B.S. Material Steel Range of tensile strength 28-32 TONS IN² Working pressure by Rules 30 KGS/cm²

ELECTRIC GENERATORS:—Type Compound Wound D.C.

Pressure of supply 225 Volts. Load 2130 (TOTAL) 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. No (See letter) 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 22/11/34 Receivers 8/5/35 Separate Tanks 20/8/35
(If not, state date of approval)

SPARE GEAR Is in accordance with the requirements of the Rules & in addition, the

following important parts have been supplied:—

2 cylinder covers complete with valves, springs & other fittings

2 pistons, complete with gudgeon pins

1 camshaft driving gear wheel.

1 set of coupling bolts for flywheel coupling.

The foregoing is a correct description,

Manufacturer. J. Kuro



010276-010282-0322

Dates of Survey while building { During progress of work in shops - 1935 May 6, June 20, 24, 27 Aug 3, 17 Sept 4, 23, 25 Oct 2, 9, 10, 11, 12, 14, 19, 22, 26, 28, 29, 30
During erection on board vessel - Dec 2, 3, 4, 6, 14, 27 1936 Jan 8, 15, Feb 22, 24, 26 Mar 6, 20, 21
Total No. of visits 34

Dates of Examination of principal parts—Cylinders 19/10/35 Covers 25/9/35 Pistons 10/10/35 Piston rods ✓

Connecting rods 21/10/35 Crank and Flywheel shaft 23/9/35 Intermediate shaft ✓

Crank and Flywheel shaft, Material F.S.M.S. Identification Mark 4420 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. Each engine was constructed under

Special Survey in accordance with the Rules & Approved plans.

The Workmanship & materials are good.

On completion the engines & generators were installed in the vessel in accordance with the Rules & tried under full working conditions with satisfactory results.

Im. 7.26—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ...
AIR RECEIVERS

£ 15-15-0

When applied for,

Mar. 20 1936

Travelling Expenses (if any) £ :

When received,

Mar. 27 1936

C. Macpherson & J. Hamada

Surveyors to Lloyd's Register of Shipping.

FRI. 15 MAY 1936

Committee's Minute

Assigned

See other 7.E.
No. 9468



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Foundation