

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 93864

17 MAY 1929

Received at London Office

17 MAY 1929

Writing Report 15<sup>th</sup> May 1929 When handed in at Local Office

Port of London

Survey held at Bedford

Date, First Survey 9<sup>th</sup> Nov. 1928 Last Survey 26<sup>th</sup> April 1929

Number of Visits 24

on the <sup>Single</sup> Twin <sup>Triple</sup> Screw vessel

Tons { Gross  
Net

at Osaka By whom built Osaka Iron Works Yard No. 1127 When built

rs Nippon Yusen Kaisha Port belonging to

Engines made at Bedford By whom made Messrs. W. H. Allen Sons & Co. Contract No. 12623 When made 1929

ators made at Bedford By whom made Messrs. W. H. Allen Sons & Co. Contract No. 12626 When made 1929

f Sets 3 Engine Brake Horse Power 1386 Nom. Horse Power as per Rule 396 Total Capacity of Generators 924 Kilowatts.

ENGINES, &c. Type of Engines Diesel (Burmester & Wain) 2 or 4 stroke cycle 4 Single or double acting single

um pressure in cylinders 500 lb. Diameter of cylinders 350 mm Length of stroke 470 mm No. of cylinders 6 No. of cranks 6

f bearings, adjacent to the Crank, measured from inner edge to inner edge 420 mm Is there a bearing between each crank Yes

ons per minute 300 Flywheel dia. 1800 mm Weight 9162 lbs. Means of ignition Compression Kind of fuel used Diesel

Shaft, dia. of journals as per Rule 190 mm as fitted 210 mm Crank pin dia. 210 mm Crank Webs Mid. length breadth 310 mm Mid. length thickness 105 mm Thickness parallel to axis shank Solid forged Thickness around eye hole

el Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 28 mm

ernor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Mechanical forced, engine driven

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

g Water Pumps, No. 2 centrifugal Is the sea suction provided with an efficient strainer which can be cleared within the vessel

ating Oil Pumps, No. and size One, driven off engine

mpressors, No. 3 (1 each sec) No. of stages 3 Diameters 292, 260, 57 Stroke 2 1/4 mm Driven by crank on shaft

ging Air Pumps, No. Diameter Stroke Driven by

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

internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces portable ends

a drain arrangement fitted at the lowest part of each receiver Yes

ressure Air Receivers, No. 3 (1 each sec) cubic capacity of each 90 litres Internal diameter 9 3/4" thickness 3/8"

, lap welded or riveted longitudinal joint seamless Material steel Range of tensile strength 29-33 tons Working pressure by Rules 1026 lb.

g Air Receivers, No. 3 Total cubic capacity 450 litres Internal diameter 12" thickness 1/2"

, lap welded or riveted longitudinal joint seamless Material steel Range of tensile strength 29-33 tons Working pressure by Rules 1168 lb.

TRIC GENERATORS: Type Open type, multipole with interpoles

re of supply 225 volts. Load 1370 Amperes. Direct or Alternating Current Direct

ating current system, state frequency of periods per second

Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

tors, do they comply with the requirements regarding rating Yes are they compound wound Yes

over compounded 5 per cent. No, if not compound wound state distance between each generator

justable regulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes

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

S. Are approved plans forwarded herewith for Shafting approved 27-6-27 Receivers Separate Tanks

(If not, state date of approval)

E GEAR

As per Drawing K/73791 herewith.

The foregoing is a correct description,

W. H. ALLEN, SONS & CO., LTD.,

Manufacturer.



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Lloyd's Register Foundation

609711-004720-031



Dates of Survey while building { During progress of work in shops - - } 1928 Nov. 9, 16. 1929 Jan. 17, 25, 26, 30. Feb. 4, 8, 15, 22, 26. March 1, 5a.  
 { During erection on board vessel - - - } March 19, 28. April 8, 15, 16, 17, 18, 19, 22, 26.  
 Total No. of visits 24

Dates of Examination of principal parts—Cylinders Jan. 17, 26, 30 Jan. 17, 25, 26, 30 Feb. 4, 8, 15, 22 Covers Feb. 4, 8. Mar. 1 Pistons Mar. 8 Piston rods ✓

Connecting rods Nov. 9, 16. 1928 Crank and Flywheel shaft Mar. 8 Intermediate shaft ✓

Crank and Flywheel shaft, Material Steel Identification Mark See below Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.V. "KARAMEA"

General Remarks (State quality of workmanship, opinions as to class, &c.)

Crank Shafts. Identification marks:-

Eng. A. 398  
R.W.F.  
LLOYDS  
115-6  
R.W.F.  
28-12-28  
1646  
1

Eng. B. 417  
LLOYDS  
1234  
18-1-29 R.W.F.  
R.W.F.  
1646  
2

Eng. C 481  
LLOYDS  
1301  
5-2-29  
R.W.F.  
1646  
3

This machinery has been constructed under Special Survey in accordance with the approved plans and Rule requirements. The workmanship and materials, so far as can be seen, are good, and satisfactory bench trials have been carried out under survey.

The three sets which are numbered 12623/4/5/c have been despatched to Japan where they are to be installed, and, in our opinion, will be eligible for inclusion in the classification and record of +LMC of the vessel.

The amount of Fee ... £ 39 : 12 : 17 MAY 1929 When applied for,

Travelling Expenses (if any) £ 15 : 8 : 31-5-29 When received, JHw

L. H. Young for self & C. C. C. Chalmer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

TUE 29 APR 1930

See Rob. J.E. 6879

FRI. 17 APR 1930  
TUE. 13 MAY 1930

WED. 8 APR 1930

TUE. 28 OCT 1930

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