

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 8297

15 SEP 1933

Received at London Office

Date of writing Report 5-8-33 19 When handed in at Local Office 15-8-33 19 Port of Kobe

No. in Survey held at Tama Date, First Survey 7-7-32 Last Survey 1-8-33 19
Reg. Book. Number of Visits 20

on the Single mtu Screw vessel "AZUMASAN MARU" Tons { Gross 7614
Triple Net

Built at Tama By whom built Inoue Institute Bureau Kaisha Ltd Yard No. 195 When built 1933

Owners Inoue Institute Bureau Kaisha Ltd. Port belonging to Kobe

Oil Engines made at Tama By whom made Inoue Institute Bureau Kaisha Contract No. 195 When made 1933

Generators made at Tokyo By whom made Shibaura Engineering Works Ltd Contract No. 3208767 When made 1933

No. of Sets 3 Engine Brake Horse Power 200 Nom. Horse Power as per Rule Total Capacity of Generators 999 Kilowatts.

OIL ENGINES, &c. Type of Engines Inoue B.W. Valve Injection 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 45 kg/cm Diameter of cylinders 220 mm Length of stroke 370 mm No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 284 mm Is there a bearing between each crank yes

Revolutions per minute 320 Flywheel dia. 1200 mm Weight 1550 kg Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth Solid Thickness parallel to axis Conical

Flywheel Shaft, diameter as fitted - Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 1 18 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched 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 lagged

Cooling Water Pumps, No. 1 Each 110 mm dia - 96 mm stroke the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size 1 Each Set - One Spare Gear Type 85 mm x 60 mm

Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -

Scavenging Air Pumps, No. One Roots Blower Diameter 3097 mm Stroke Length 419.5 mm Driven by engine direct

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 brush

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 Air Bottle Total cubic capacity 300 litres Internal diameter 400 mm thickness 13 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 28-32 ton Working pressure by Rules 25 Kilo

ELECTRIC GENERATORS: Type Compound D.C. Generator

Pressure of supply 220 volts. Load 605 Amperes. Direct or Alternating Current Direct

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 13-12-32 Receivers - Separate Tanks -

SPARE GEAR

As Required by the Rules

The foregoing is a correct description,

J. U. Kas

Manufacturer.



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Lloyd's Register

Foundation

MIP
6.2 kg

CR
5/1/33

55 pul 8 - 027 mof
Adm 2/1/33

1932
 1933
 Dates of Survey while building: During progress of work in shops - July 7, Aug 4, Sept 2, Nov 4, 9, 15, 21, Dec 13, Jan 9, 16, 31, Feb 14, 15, March 15, May 13, June 14
 During erection on board vessel - June 23, July 11, 26, Aug 1
 Total No. of visits - 20

Dates of Examination of principal parts—Cylinders 21-11-32 Covers 21-11-32 Pistons 9-11-32 Piston rods -

Connecting rods 29-11-32 Crank and Flywheel shaft 22-3-33, 27-3-33 Intermediate shaft -

Crank and Flywheel shaft, Material Steel Identification Mark 22405, 23336 ABC, 19-11-32, H.A.G. 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. On completion the machinery was satisfactorily installed in the vessel, coupled to the generator and tested under full working conditions and parallel running and found to be efficient and reliable, in my opinion for classification.

[Faint handwritten notes and signatures, including "12-15-35" and "The Registrar of the Rules"]

The amount of Fee ... Yen 750.- When applied for, 2nd Aug. 1933
 Travelling Expenses (if any) £ See bill report When received, 26.10.19.33

[Signature: A.D. Morrison]
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 12 SEP 1933
 Assigned See F.C. Rpt.

FRI. 29 SEP 1933



Im. 7, 20 - Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)