

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 6701

Received at London Office

28 NOV 1929

Writing Report 25-10-1929. When handed in at Local Office

Port of Kobe.

Survey held at Kobe.

Date, First Survey 27/5/29

Last Survey 23/10/ 19 29.

Book.

Number of Visits 59.

Single
on the Twin
Triple
Quadruple

Screw vessel

Rio de Janeiro man

Nagasaki No. 457.

Tons { Gross
Net

Built at Nagasaki.

By whom built Mitsubishi Zosen Kaisha,

Yard No. 457. When built

Engineers Osaka Shosen Kaisha.

Port belonging to

Engines made at Kobe.

By whom made Mitsubishi Zosen Kaisha.

Contract No. 77-79

When made 1929.

Generators made at Nagasaki.

By whom made Mitsubishi Zosen Kaisha.

Contract No.

When made 1929.

of Sets 3

Engine Brake Horse Power 350 each

350 each

Nom. Horse Power as per Rule 243 total.

81 each

Total Capacity of Generators 783. Kilowatts.

ENGINES, &c. Type of Engines Mitsubishi - Vickers.

2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 43 Kgs./cm²

Diameter of cylinders 300 m/m

Length of stroke 450 m/m

No. of cylinders 6 each No. of cranks 6 each

Position of bearings, adjacent to the Crank, measured from inner edge to inner edge 355 m/m

Is there a bearing between each crank Yes

Revolutions per minute 310

Flywheel dia. 1.780 m/m Weight 3278 Kgs.

Means of ignition Air Compression

Kind of fuel used Diesel Oil F.P. above 150 F.

Crank Shaft, dia. of journals as per Rule 171 m/m

as fitted 185 m/m

Crank pin dia. 185 m/m

Crank Webs Mid. length breadth 270 m/m

Thickness parallel to axis --

Flywheel Shaft, diameter as per Rule

as fitted Crank shaft

Intermediate Shafts, diameter as per Rule

as fitted --

Thickness of cylinder liners 30 m/m

Is a governor fitted to prevent racing of the engine Yes

Means of lubrication Forced feed.

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. 110 m/m x 45 m/m Eng. Driven.

Is the sea suction provided with an efficient strainer which can be cleared within the vessel --

Lubricating Oil Pumps, No. and size 110 m/m x 45 m/m Eng. driven.

Air Compressors, No. --

No. of stages --

Diameters --

Stroke --

Driven by --

Exhausting Air Pumps, No. --

Diameter --

Stroke --

Driven by --

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

Are the internal surfaces of the receivers be examined --

What means are provided for cleaning their inner surfaces --

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

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. --

Total cubic capacity --

Internal diameter --

thickness --

Seamless, lap welded or riveted longitudinal joint --

Material --

Range of tensile strength --

Working pressure by Rules --

ELECTRIC GENERATORS:—Type Mitsubishi compound wound.

Pressure of supply 225 volts.

Load 1160 per machine 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 Made at Nagasaki: 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 --

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched --

Are the lubricating arrangements of the generators as per Rule Yes

PLANS. Are approved plans forwarded herewith for Shafting 14th July 1928

Receivers --

Separate Tanks --

SHAFTING GEAR See separate list.

The foregoing is a correct description,

S. Schikawa

Manufacturer.



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Foundation

007846 - 007856 - 0119

Dates of Survey while building { During progress of work in shops - 1929, May, 27, June 5, 6, 8, 13, 14, 15, 17, 18, 20, 21, 25, 28, 29, July 1, 2, 3, 4, 5, 11, 15, 16, 20, 22, 24, 25, 29, Aug. 1, 5, 7, 19, 20, 22, 23, 24, 27, 28, 29, Sept. 3, 4, 5, 9, 11, 12, 21, 24, 27, Oct. 1, 3, 5, 7, 8, 12, 15, 23. During erection on board vessel - - - } Total No. of visits

Dates of Examination of principal parts—Cylinders 6/6, 8/6, 13/6, 14/6, 15/6, 17/6, 21/6, 25/6, 18/7, 19/7, 1/8, 15/1/29, 18/6, 20/6, 28/6, 29/6, 7/8, 4/9, 6/6, 8/6, 13/6, 14/6, 15/6, 17/6, 21/6, 25/6, 18/7, 19/7, 20/7, 22/7, 3/10, 15/1/29
Covers 4/9
Pistons 15/6, 17/6, 21/6, 25/6, 18/7, 19/7, 20/7, 22/7, 3/10, 15/1/29
Connecting rods 25/1, 28/8
Crank and Flywheel shaft 7/11/28, 23/2/29, 15/1/29
Intermediate shaft --

Crank and Flywheel shafts, Material O.H.Stl.

Identification Mark Nos. 116, 84, 105, G.A. LLOYD'S (DA

Intermediate shafts, Material --

Identification Marks --

Is this machinery duplicate of a previous case Yes If so, state name of vessel Nagasaki. No. 456.

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery described above has been constructed under special survey, the materials and workmanship employed in its manufacture are good. It complied with the Rule Requirements and the test bed trials proved satisfactory.

The machinery under discussion is to be shipped to Nagasaki and installed in Vessel No. 45 in my opinion, will be eligible for inclusion in the classification and record of LMC of the vessel.

Engine finally marked:-

Eng. No. 77.

Eng. No. 78

Eng. No. 79.

LLOYD'S

LLOYD'S

LLOYD'S

No. 2178

No. 2179

No. 2180

21-9-29

21-9-29

21-9-29

W.K. LR

W.K. LR

W.K. LR

The amount of Fee ... Yen 750:00

When applied for, 23/10/19 29

Travelling Expenses (if any) Yen 90:00

When received, 19

Committee's Minute

Assigned

H. K. Kimber.
Surveyor to Lloyd's Register of Shipping.



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