

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 7323

27 MAY 1931

Received at London Office

Date of writing Report 23-4-1931 When handed in at Local Office 27-4-1931 Port of

No. in Survey held at Reg. Book.

Jama

Date, First Survey 21-4-30.

Last Survey 14-10-1930.

Number of Visits 21.

Single on the Triple Screw vessel

"SHOHEI MARU"

Gross 7256 Tons Net

Built at Jama.

By whom built Mitsui Bussan Kaisha

Yard No. 180

When built 3-'31.

Owners Shimatani Kisen Kabushiki Kaisha

Port belonging to Kobe.

Oil Engines made at Jama

By whom made Mitsui Bussan Kaisha

Contract No.

When made Mar. '31.

Generators made at Shibaura, Tokio

By whom made Shibaura Seisaku-Sho

Contract No.

When made May '30.

No. of Sets 3 Engine Brake Horse Power 2 @ 320

Nom. Horse Power as per Rule 25.5

2-100KW & 1-66KW

Total Capacity of Generators 266 Kilowatts.

ENGINES, &c.—Type of Engines Mitsui-Burmeister 328-MTHK-45 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 510 lb/sq in Diameter of cylinders 280 mm Length of stroke 450 mm No. of cylinders 3 or 2 No. of cranks 3 or 2

Position of bearings, adjacent to the Crank, measured from inner edge to inner edge 358 mm Is there a bearing between each crank Yes

Revolutions per minute 400 Flywheel dia. 1540 mm Weight 5000 Kg. Means of ignition Compression Kind of fuel used Heavy oil.

Crank Shaft, dia. of journals as per Rule 165.9 mm as fitted 180 mm Crank pin dia. 180 mm Mid. length breadth 400 mm Mid. length thickness 95 mm Thickness parallel to axis Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners

Is there 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

Cooling Water Pumps, No. 3 (One per each set) Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 3 (one per each set) worm gear type.

Air Compressors, No. 3 No. of stages 2 Diameters HP. 280 mm LP. 320 mm Stroke 170 mm Driven by Diesel Engine.

Exhausting Air Pumps, No. Diameter Stroke Driven by

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

Are 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

Working Air Receivers, No. 1 Total cubic capacity 250 litres Internal diameter 380 mm thickness 11 mm.

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type Compound Wound, DC, 100 K.W. Generator.

Pressure of supply 220 volts. Load 2 @ 455 @ 300 Amperes. Direct or Alternating Current Direct Current.

Is there an 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 there 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

ANS. Are approved plans forwarded herewith for Shafting 9-5-30 Receivers Separate Tanks

ARE GEAR as per the Rules, checked and found satisfactory.

The foregoing is a correct description,

S. Utas

Manufacturer.



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During progress of work in shops - 1930. April 21, 28, May 12, 14, 20, 22, 30, June 7, 12 July 10, 15, 21, 24
During erection on board vessel - Aug. 14, 19, 27, Sept. 2, 13, Oct. 3, 6, 14.
Total No. of visits 21

Dates of Examination of principal parts - Cylinders 13-9-30 and Covers 13-9-30

Pistons

Piston rods ✓

Connecting rods 30-5-30 to 24-7-30

Crank and Flywheel shaft 10-6-30

6-3-30 to

13-1-30 to 28-4-30

Intermediate shaft ✓

Crank and Flywheel shafts, Material

Open hearth forged steel

Identification Mark

LR Nos 673 or 674

LR No. 2493

Intermediate shafts, Material

Identification Marks

Is this machinery duplicate of a previous case

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 material and workmanship are good and on completion the machinery has been efficiently installed in the vessel, coupled with the generators and tested under full working and parallel running conditions, and found to be efficient and eligible in my opinion to have record of L.M.C. 3-31.

Marks on Generators.

LLOYD'S
No. 224
26-5-30
J.F.N. R

LLOYD'S
No. 225
26-5-30
J.F.N. R

LLOYD'S
No. 226
4-6-30
J.F.N. R

H. D. Buchanan & self.

K. Kishigami
Surveyor to Lloyd's Register of Shipping.

The amount of Fee ...

When applied for,

19

Travelling Expenses (if any) £

When received,

19

Committee's Minute

FRI. 12 JUN 1931

Assigned

See J. E. Rpt.



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