

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No.

Received at London Office

25 MAR '95

Date of writing Report

19

When handed in at Local Office

19

Port of

Kobe

No. in Survey held at
Reg. Book.

Kobe

Date, First Survey 31-1-34

Last Survey

19

Number of Visits

90519 on the ~~Tanaka~~
~~Condor~~ Single
Triple
Condor

Screw vessel

"NOJIMA MARU"

Tons { Gross 7184
Net 4318

Built at Nagasaki

By whom built Mitsubishi Jukogyo Kaisha, Nagasaki Yard No. 582 When built 1935

Owners Nippon Yusen Kabushiki Kaisha,

Port belonging to Tokio.

Oil Engines made at Kobe Works

By whom made Mitsubishi Jukogyo K.K.

Contract No. { 460
461
462 When made

Generators made at Nagasaki Works

By whom made Mitsubishi Denki K.

Contract No. When made

No. of Sets 3 Engine Brake Horse Power 390 Nom. Horse Power as per Rule Total Capacity of Generators 780 Kilowatts.

OIL ENGINES, &c.—Type of Engines Mitsubishi Vert. trunk piston HRC-6 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 45 Kg/cm² Diameter of cylinders 300 mm Length of stroke 450 mm No. of cylinders 6 No. of cranks 6

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 355 mm Is there a bearing between each crank yes

Revolutions per minute 340 Flywheel dia. 1700 mm Weight 3660 Kg Means of ignition airless inj. Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 185 mm as fitted 185 mm Crank pin dia. 185 mm Crank Webs Mid. length breadth 270 mm Thickness parallel to axis 98 mm Mid. length thickness 98 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 30 mm as fitted

Is a governor or other arrangement fitted to prevent racing of the engine when declutched 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. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size 1 Single acting Bore 70 mm x stroke 45 mm RPM 340

Air Compressors, No. 2 No. of stages 3 Diameters 80 x 310 x 360 mm Stroke 180 mm Driven by direct

Scavenging 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

Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces man 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

Starting Air Receivers, No. 1 Total cubic capacity 486 L Internal diameter 2'-5" thickness 5/8"

Seamless, lap welded or riveted longitudinal joint Butt. I.R. Material steel Range of tensile strength 28-35 tons/sq. inch Working pressure by Rules 30 Kg/cm²

ELECTRIC GENERATORS:—Type Mitsubishi Multipole Comp. Wound. drip proof 260 K.W.

Pressure of supply 225 volts Load 1155 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

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

are they over compounded 5 per cent. if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field 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

PLANS. Are approved plans forwarded herewith for Shafting 13-11-33 Receivers 14-11-33. Separate Tanks

SPARE GEAR

The foregoing is a correct description,

Manufacturer.

Kobe Works, Mitsubishi Jukogyo

KABUSHIKI KAISHA

Superintendent Engineer.

007059 007071 0212

Dates of Survey while building { During progress of work in shops - - 1934. Jan. 31. Feb. 12. March 18, 22, 26, 28, 29, 31. May 2, 8, 25. June 9, 25, 27. July 11, 18. Aug. 7, 8, 9, 10, 16, 17. 13. Sept. 5, 10, 13, 17, 19, 20, 21, 22, 27, 29. Oct. 6, 5, 10, 15, 19, 22, 23, 24. Nov. 1, 15. } During erection on board vessel - - - } Total No. of visits

Dates of Examination of principal parts—Cylinders 27. 22. 19-9-34 29-9-34 6. 19. 24-10-34
Connecting rods 14-3-34 9. 16. 24-4-34 20-23-6-34
Crank and Flywheel shaft 5-11-34 5-10-34 5-11-34
Intermediate shaft 5-11-34
Crank and Flywheel shaft, Material Forged Steel Identification Mark 4105 4132 4143 20-6-34 23-6-34
Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel Nagasaki Ship no. 581.

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. The machinery has been tried on the test bed under full load overload, and governor tests when connected to their generators: parallel running tests were also carried out and all found satisfactory and eligible in my opinion for classification.

The machinery have been shipped to their Nagasaki Works where it is intended to install them on board the Ship, no. 582.

Stamped as follows:

Mach. no. 460

LLOYD'S

No. 75

KK 5-11-34

Mach. no. 461

LLOYD'S

No. 76

KK 5-11-34

Mach. no. 462

LLOYD'S

No. 77

KK 5-11-34

This Machinery has been efficiently installed on board, and tried under full load, overload governor and parallel running tests with satisfactory results.

The amount of Fee ...

£ 975.-

Travelling Expenses (if any) £

When applied for,

19

When received,

19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 29 MAR 1935

Assigned

See Nag Rpt 2018



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