

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 5918.

18 JAN 1937

Date of writing Report 15-12-1936 When handed in at Local Office 9-10-1936 Port of Yokohama
 No. in Survey held at Tokio Date, First Survey 10th Feb. Last Survey 15th Dec. 1936
 Reg. Book. 154 Dec. 1936
 Number of Visits 14 + 8 = 22
 on the Single Screw vessel Non Propelled 120 Ton Floating Crane. Tons { Gross 192
 { Net 192
 Built at Tokio By whom built Ischikawajima S. B. Eng. Wks Yard No. 439 When built 1936
 Owners U. S. S. R (Union of Soviet Socialist Republic) Port belonging to Vladivostok
 Oil Engines made at Tokio By whom made Ikegai Iron Works Contract No. 9408 When made 1936
 Generators made at Teurumi By whom made Shibaura Engineering Works Contract No. 3630078 When made 1936
 No. of Sets one Engine Brake Horse Power 200 Nom. Horse Power as per Rule 130 Total Capacity of Generators 130 Kilowatts.

OIL ENGINES, &c.—Type of Engines Airless injection 4SD 26 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 45 kg Diameter of cylinders 260 mm Length of stroke 380 mm No. of cylinders 4 No. of cranks 4
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 303 mm Is there a bearing between each crank Yes
 Revolutions per minute 400 Flywheel dia. 1400 mm Weight 1604 Kg Means of ignition Compression Kind of fuel used Reinsun Bracks Anchor
 Crank Shaft, dia. of journals as per Rule 155 mm Crank pin dia. 155 mm Crank Webs Mid. length breadth 230 mm Thickness parallel to axis shrunk
as fitted 80 mm Thickness around eyehole Cyl. wall 18-25 mm
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners no liners
as fitted Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced lubrication
Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Yes, but not cooled.
 Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 Lubricating Oil Pumps, No. and size One 0.35 litre per sec. HP 32 mm LP 635 mm Stroke 50 mm Driven by Electric Motor
 Air Compressors, No. One No. of stages 2 Diameters HP 32 mm LP 635 mm Stroke 50 mm Driven by Electric Motor
 Scavenging Air Pumps, No. Yes Diameter Yes Stroke Yes Driven by Yes

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 from hand hole.
 Is there a drain arrangement fitted at the lowest part of each receiver Yes
 High Pressure Air Receivers, No. Yes 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 Total cubic capacity 120 litre Internal diameter 339 mm thickness 8 mm
 Seamless, lap welded or riveted longitudinal joint Seamless Material stul Range of tensile strength 41 kg/mm² Working pressure by Rules 38 kg/mm²

ELECTRIC GENERATORS:—Type 130 K.W. D.C. Compound Wound, drip proof generator.
 Pressure of supply 125 volts. Load 1040 Amperes. Direct or Alternating Current D.C.
 If alternating current system, state frequency of periods per second Yes
 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 Yes
 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 1st May 1936 Receivers 4th June 1936 Separate Tanks Yes
 (If not, state date of approval)

SPARE GEAR All found in order as the Rules.

The foregoing is a correct description.

Ikegai Iron Works, M. Anzai Manufacturer.

H. Ohtsu



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Dates of Survey while building { During progress of work in shops - - } 1936, Feb-10. 25. April-7, 20. 30. May-11. 22. July-20, 29. 30. Aug-5. 11.
 { During erection on board vessel - - - } " Sept-1, 11, 21, 25, 26. 30. Oct 10, 13, 14, 16, 20 & 29th. Dec 15th, 1936.
 Total No. of visits 14 22

Dates of Examination of principal parts—Cylinders April 20, Aug 11. Covers April 20, Aug 11. Pistons Aug 10. Piston rods ✓
 Connecting rods Feb 10, May 11, Aug 11. Crank and Flywheel shaft April 7, May 22, Aug 11. Intermediate shaft ✓
 Crank and Flywheel shaft, Material Steel Identification Mark LLOYDS NO. 4878 22-5-36 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, &c.) This auxiliary machine has been built and fitted on board the vessel under Special Survey in accordance with the Rules and approved plans. Material and workmanship found good. The machinery was examined under running conditions on test bed in shop and afterwards under full working conditions on board the vessel with satisfactory results.

For identification purposes this engine has been stamped thus:-

LLOYDS TEST
 WTP 75 Kg or 3 Kg. R
 J.F.N 20-4-36
 No. 1
 K.K. 11-8-36

This engine has been securely fitted on board vessel and has been examined under full working conditions, during trials of crane. Trials of crane included an overload of 20%, i.e. total weight lifted being 144 tons.

This engine is eligible in our opinion to be classed in the Register Book.

The amount of Fee ... £ 225 = When applied for, 19-9-36
 Travelling Expenses (if any) £ 25 = When received, 1-10-36

Th. K. Nicholas
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 29 JAN 1937
 Assigned See other F.E. Lpt



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