

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 4372

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Date of writing Report Aug 2 1953 When handed in at Local Office 19 Port of LOS ANGELES HARBOUR CALIFORNIA
 No. in Reg. Book 73296 Survey held at SAN PEDRO CALIFORNIA Date, First Survey FEBRUARY 5, 1953 Last Survey JANUARY 14, 1953
 Single on the Twin Triple Quadruple Screw vessel MV POZA RICA. Number of Visits 3 Tons Gross 7884 Net 4459
 Built at TRIESTE By whom built CANTIERI RIUNITI DELL'ADRIATICA Yard No. 1213 When built 1938
 Owners PETROLEOS MEXICANOS Port belonging to TAMPICO FWD C30348
 Oil Engines made at BELOIT WISCONSIN By whom made FAIRBANK MORSE Contract No. AF-C30349 When made 1943
 Generators made at DAYTON OHIO By whom made DELCO PRODUCTS DIV OF GMC MODEL 1-3653 Contract No. 131-A-4-43 When made 1943
 No. of Sets TWO Engine Brake Horse Power 66 Nom. Horse Power as per Rule 60 Total Capacity of Generators 60 Kilowatts.

OIL ENGINES, &c.—Type of Engines AUXILIARY DIESEL MODEL 49A 1/2 2 or 4 stroke cycle 2 Single or double acting SINGLE
 Maximum pressure in cylinders ✓ Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4 1/2" Is there a bearing between each crank YES
 Revolutions per minute 1200 Flywheel dia. ✓ Weight ✓ Means of ignition SOLID Kind of fuel used DIESEL
 Crank Shaft, dia. of journals as per Rule 4" Crank pin dia. 3" Crank Webs Mid. length breadth ✓ Thickness parallel to axis ✓
 Flywheel Shaft, diameter as fitted Intermediate Shafts, diameter as fitted Thickenss around eyehole ✓
 Is a governor or other arrangement fitted to prevent racing of the engine when de-clutched YES Means of lubrication FORCED
 Are the cylinders fitted with safety valves NO Are the exhaust pipes and silencers water cooled or lagged with non-conducting material LAGGED
 Cooling Water Pumps, No. ONE EACH Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES
 Lubricating Oil Pumps, No. and size ONE EACH
 Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 Scavenging Air Pumps, No. ONE EACH Diameter ✓ Stroke ✓ Driven by CAM GEAR

AIR RECEIVERS:—Have they been made under Survey ELECTRIC STARTERS State No. of Report or Certificate ✓
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule ✓
 Can 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 STAB SHUNT US NAVY SPECIFICATION DRIP PROOF ENCLOSED WITH EQUALIZER CONNECTION
 Pressure of supply 110 volts. Full Load Current 250 Amperes. Direct or Alternating Current DC
 If alternating current system, state the periodicity ✓ Has the Automatic Governor been tested and found as per rule when full load is suddenly thrown on and off YES Generators, are they compounded as per rule 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 ✓
 Are the lubricating arrangements of the generators as per Rule YES If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test YES and do the results comply with the requirements AIEE STANDARD If the generators are 100 kw. or over have they been built and tested under survey ✓

PLANS. Are approved plans forwarded herewith for Shafting ✓ Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)

SPARE GEAR Two special steel crankshafts, one piston complete, one connecting rod, four main bearing and three crankpin brases, two liners, two cylinder heads, one fuel injection pump

The foregoing is a correct description,

Manufacturer.



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010924 - 010932 - 0064

Dates of Survey while building { During progress of work in shops - - } ✓
During erection on board vessel - - - } ✓
Total No. of visits ✓

Dates of Examination of principal parts—Cylinders FEB 25. 52 Covers FEB 25. 52 Pistons FEB 25. 52 Piston rods ✓

Connecting rods FEB 25. 52 Crank and Flywheel shafts FEB 25. 52 Intermediate shafts ✓

Crank and Flywheel shafts, Material ✓ Identification Marks ✓

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

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.) The two Diesel Engines direct coupled to Generators were stated constructed under specifications & supervision to United States Navy requirements. The materials and workmanship are good. These units have been examined under working conditions, tested to Rule Requirements & found satisfactory. In my opinion, these units are such as could be accepted by the Committee for Classification.

Generator Units are equipped with starting motors, starting battery, 12 volt battery charging generators with cutout relay and step voltage control & solenoid operated, starting motors are gear driven.

The amount of Fee charged on Rpt 46 :

Travelling Expenses (if any) £ - : :

When applied for, 19
When received, 19

W. B. Bloomfield
Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK NOV 10 1953

Assigned See attached 1st entry report



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