

DUPLICATE

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Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 977

Received at London Office 2 NOV 1941

Date of writing Report March 2, 1940 When handed in at Local Office Port of Cleveland, Ohio.

No. in Survey held at Fort Wayne, Ind. Date, First Survey Feb. 12th Last Survey Feb. 12th, 1940.
Reg. Book. Number of Visits 1

Single }
on the Twin } Screw vessel
Triple }
Quadruple }

Tons { Gross
Net

Built at Chester, Pa. By whom built Sun S/B & D/D Co. Yard No. 198 When built

Owners Texas Company Port belonging to -

Oil Engines made at - By whom made - Contract No. - When made -

Generators made at Fort Wayne, Ind. By whom made General Electric Co. Contract No. XP539097 When made 1940

No. of Sets 1 Engine Brake Horse Power - Nom. Horse Power as per Rule - Total Capacity of Generators 500 Kilowatts.

OIL ENGINES, &c.—Type of Engines Steam Turbines 2 or 4 stroke cycle - Single or double acting -

Maximum pressure in cylinders - Diameter of cylinders - Length of stroke - No. of cylinders - No. of cranks -

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

Revolutions per minute - Flywheel dia. - Weight - Means of ignition - Kind of fuel used -

Crank Shaft, dia. of journals as per Rule - Crank pin dia. - Crank Webs Mid. length breadth - Thickness parallel to axis -
as fitted - Mid. length thickness - shrunk - Thickness around eyehole -

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

Is a governor or other arrangement fitted to prevent racing of the engine when declutched - Means of lubrication -

Are the cylinders fitted with safety valves - Are the exhaust pipes and silencers water cooled or lagged with non-conducting material -

Cooling Water Pumps, No. - Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size -

Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -

Scavenging Air Pumps, No. - Diameter - Stroke - Driven by -

AIR RECEIVERS:—Have they been made under Survey - 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 (2) each 250 K.W. 240 volts, 1200 R.P.M., D.C. Compound Wound. Standard Marine Type. To be operated in parallel.

Pressure of supply - volts. Full Load Current - Amperes. Direct or Alternating Current -

If alternating current system, state the periodicity - Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off -

Generators, are they compounded as per rule - 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 -

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test - and do the results comply with the requirements -

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 For each Generator:— (1) Field coil of each kind and size. (1) Set of bearing linings. (1) Brush holder complete with (3) extra springs. (1) Set of brush rigging insulation. (1) Set of carbon brushes.

The foregoing is a correct description.

(signed) General Electric Co.

Manufacturer.



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February 12th, 1940.

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 - Covers - Pistons - Piston rods -
 Connecting rods - Crank and Flywheel shafts - 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 - If so, state name of vessel -

General Remarks (State quality of workmanship, opinions as to class, &c.)

These generators were examined in process of construction and assembly. They were found to comply with the Society's Rules and the workmanship and materials are good. The completed generators are to be shipped to the manufacturer's works at Lynn, Mass., for temperature running tests and acceptance in conjunction with steam turbines.

Im. 11.37.—Transfer. (MADE IN ENGLAND.)
 (The Surveys are requested not to write on or below the space for Committee Minute.)

TO BE CREDITED
 The amount of Fee ... TO CLEVELAND.: \$25.00
 Travelling Expenses (if any) \$12.00

When applied for, 16/1/1941
 When received, 29/1/1941

(signed) G. DRUMMOND
 Surveyor to Lloyd's Register of Shipping.

NEW YORK OCT 15 1941

Committee's Minute

Assigned See attached Pub. Rpt. No. 7993.



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