

TURBINE

REPORT ON ~~OIL~~ ENGINE ELECTRIC GENERATOR SETS.

No. 3407

pt. 4c.

Received at London Office **AUG 14 1939**

Date of writing Report **April 20, 39** When handed in at Local Office 19 **Port of Boston, Massachusetts**

No. in Survey held at **Lynn, Mass.** Date, First Survey **Jan. 4** Last Survey **Jan. 13, 19 39**
Reg. Book. Number of Visits **3**

Single
on the Twin } Screw vessel
Triple }
Quadruple }

Tons { Gross
Net

Built at **Sparrows Point, Md.** By whom built **Bethlehem Steel Company** Yard No. **4333** When built **1939**

Owners **Socony-Vacuum Oil Company** Port belonging to

Turbine **Engines made at Lynn, Mass.** By whom made **General Electric Company** Contract No. When made **1939**

Generators made at **Fort Wayne, Ind.** By whom made **General Electric Company** Contract No. When made **1938**

No. of Sets **2** Engine Brake Horse Power Nom. Horse Power as per Rule Total Capacity of Generators **600** Kilowatts.

IL ENGINES, &c.—Type of Engines 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 as fitted Crank pin dia. Crank Webs Mid. length breadth Mid. length thickness Thickness parallel to axis shrunk Thickness around eyehole

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

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:—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 **M P C Six pole 300 K.W.**

Pressure of supply **240** volts. Load **1250** Amperes. **Direct or Alternating Current Direct**

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 **Yes**

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

are they over compounded **3.5** per cent. **regulation. Yes to suit turb.**, if not compound wound state distance between each generator

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 Receivers Separate Tanks

SPARE GEAR **(1) Commutating field coil (1) Main field coil (1) Bearing lining.**

(1) Brush holder (3) Springs (36) Brushes

The foregoing is a correct description,

GENERAL ELECTRIC COMPANY Manufacturer.
BY A. G. GALE



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Lloyd's Register Foundation

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Dates of Survey while building { During progress of work in shops - - } **Feb. 7-10-23-24, 1939**
 { 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 shaft ✓ Intermediate shaft ✓

GENERATOR SHAFT
 Crank and Flywheel shafts, Material **O.H. Steel** Identification Mark

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 above generators were built under Special Survey and Tested under full load in the shop with satisfactory results. The material and workmanship are good.**

1m.6.31—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee £	:	:	When applied for,
		19.....
Travelling Expenses (if any) £	:	:	When received,
		19.....

Thomas Barrie
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **NEW YORK AUG 2-1939**
 Assigned *See attached report salt. NO. 6825.*

