

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 49001

Received at London Office 2-APR 1949

Writing Report 19 When handed in at Local Office 19 Port of **NEW YORK N.Y.**

Survey held at **BROOKLYN N.Y.** Date, First Survey **14<sup>th</sup> SEPT 48** Last Survey **16<sup>th</sup> FEB 1949**

Number of Visits **3**  
 Single on the Twin Triple Quadruple Screw vessel **M.V. LEONA** EX LST NO 180

At **EVENSTON ILL** By whom built **MISSOURI VALLEY BRIDGE & IRON WORKS** Yard No. **40** When built **1943-**

Engines made at **SPRINGFIELD OHIO** By whom made **SUPERIOR ENGINE DIVISION OF NATIONAL SUPPLY CO** Port belonging to **MARACAIBO** Contract No. **S 23287** P 23220 When made **1942-**

Generators made at **DAYTON OHIO** By whom made **DELCO PRODUCTION DIVISION OF GENERAL MOTORS CORP** Contract No. **S 313K** P 107V When made **1942-4**

of Sets **Two** Engine Brake Horse Power **150EA** Nom. Horse Power as per Rule  Total Capacity of Generators **200** Kilowatts.

ENGINES, &c.—Type of Engines **VERTICAL AUXILIARY DIESELS 9BD-8** 2 or 4 stroke cycle **4** Single or double acting **SINGLE**

Minimum pressure in cylinders Diameter of cylinders **5 1/2"** Length of stroke **7"** No. of cylinders **8** No. of cranks **8**

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge **6"** Is there a bearing between each crank **YES**

Revolutions per minute **1200** Flywheel dia. **26 1/2"** Weight **194 LBS** Means of ignition Kind of fuel used **DIESEL**

Crank Shaft, dia. of journals as per Rule  as fitted **4 1/2"** Crank pin dia. **3 1/2"** Crank Webs Mid. length breadth **6 1/2"** Thickness parallel to axis  Mid. length thickness **1 1/4"** Thickness around eye-hole

Intermediate Shafts, diameter as per Rule  as fitted  Thickness of cylinder liners **15/32"**

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 **NO** Are the exhaust pipes and silencers ~~water cooled~~ lagged with non-conducting material **YES**

Boiling Water Pumps, No. **ONE SW** Is the sea suction provided with an efficient strainer which can be cleared within the vessel **YES**

Lubricating Oil Pumps, No. and size **ONE SW 86"**

Compressors, No. **Two** No. of stages **Two** Diameters **2 1/2" + 4"** Stroke **3'** Driven by **ELE MOTORS**

Sucking Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey  State No. of Report or Certificate

Each receiver, which can be isolated, fitted with a safety valve as per Rule

Are 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

Unless, lap welded or riveted longitudinal joint  Material  Range of tensile strength  Working pressure by Rules

Working Air Receivers, No.  Total cubic capacity  Internal diameter  thickness

Unless, lap welded or riveted longitudinal joint  Material  Range of tensile strength  Working pressure by Rules

ELECTRIC GENERATORS:—Type **DRIP PROOF, 2 WIRE, DC GENERATOR.**

Pressure of supply **240** volts. Full Load Current **417** Amperes. Direct or Alternating Current **DC**

Is it an 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~~ **SHUNT** 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 labels **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** 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 tested and tested under survey **A.B.S. + U.S.N.**

Are approved plans forwarded herewith for Shafting **No** Receivers  Separate Tanks

RE GEAR **To Rule requirements**

The foregoing is a correct description,

Manufacturer.

014859-014872-0153



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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 O.H. STEEL Identification Marks Ⓟ D7929 Ⓢ D2918  
 Intermediate shafts, Material ✓ Identification Marks ✓  
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case YES If so, state name of vessel M.V. LUISE

General Remarks (State quality of workmanship, opinions as to class, &c.) The two Diesel driven Generating sets were constructed under the supervision of the American Bureau of Shipping & U.S. Navy. the condition & standard of workmanship is considered good & satisfactory.

The two Diesel engines are direct coupled to the generators & equipped with battery starting equipment. were reconditioned at the time & examined throughout. were found in good condition.

The required tests were carried out. under various loads & governing controls with satisfactory results.

IM-342 Transfer. (Printed in U. S. A.)  
 (The Signatures are requested not to write on or below the space for Committee Minute.)

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

Bloomfield for J S Keller & self  
 Surveyor to Lloyd's Register of Shipping.

Cargo details. P 920769 Imp PJ 735  
 S 920870 PJ 736

MSK

Committee's Minute **NEW YORK MAR 16 1949** ARP

Assigned See First Entry Report attached



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