

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 49002

2-APR 1949

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Date of writing Report 19 When handed in at Local Office 19 Port of NEW YORK, N.Y.

No. in Reg. Book. Survey held at BROOKLYN, N.Y. Date, First Survey 20th SEPT 48 Last Survey 27th JAN 19 49

Single on the Twin Triple Quadruple Screw vessel M.V. 'LIDIA' EX LST N° 198 Number of Visits 3 Tons Gross Net

Built at SENECA ILL By whom built CHICAGO BRIDGE & IRON WORKS Yard No. 2 When built 1943-1

Owners SHELL CARIBBEAN PETROLEUM CO Oil Engines made at SPRINGFIELD OHIO By whom made SUPERIOR ENGINE DIVISION OF NATIONAL SUPPLY CO Port belonging to MARACAIBO P 23318 Contract No. S 23386 When made 1942

Generators made at DAYTON OHIO By whom made DELCO PRODUCTION DIVISION OF GENERAL MOTORS CORP Contract No. P 1117 Contract No. S 243K When made 1942

No. of Sets TWO Engine Brake Horse Power 150 EA Nom. Horse Power as per Rule Total Capacity of Generators 200 Kilowatts.

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

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

Span 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

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

Is a 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 ONE FW 140 GPM EACH Are the exhaust pipes and silencers water cooled or lagged with non-conducting material YES

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

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 used, 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 DRIP PROOF. 2 WIRE DC GENERATOR.

Pressure of supply 240 volts. Full Load Current 417 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 SHUNT 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 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 built and tested under survey A.B.S. + U.S.N.

PLANS. Are approved plans forwarded herewith for Shafting No Receivers Separate Tanks

SHAFTING TO RULE requirements

The foregoing is a correct description,

Manufacturer.



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 Ⓟ D 2789 Ⓢ D 3108
 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 this time & examined throughout. were found in good conditions

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

I.M. 3-42 Transfer. (Printed in U. S. A.)
 (The Supervisors 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

Bloomfield for M. S. Keller & Self
 Surveyor to Lloyd's Register of Shipping.
 Bayoudeck. P 920307 Pump
 S 920309

Committee's Minute NEW YORK MAR 16 1949 HP
 Assigned See first entry report attached.



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