

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 49002

2-APR 1949

Date of writing Report 19 When handed in at Local Office 19 Port of NEW YORK, N.Y.  
 Received at London Office  
 No. in Reg. Book. Survey held at BROOKLYN, N.Y.  
 Date, First Survey 20<sup>th</sup> SEPT 48 Last Survey 27<sup>th</sup> JAN 19 49  
 Number of Visits 3  
 Single on the Twin Triple Quadruple Screw vessel M.V. 'LIDIA' EX LST N° 198  
 Built at SENECA ILL By whom built CHICAGO BRIDGE & IRON WORKS Yard No. 2  
 Owners SHELL CARIBBEAN PETROLEUM CO  
 Oil Engines made at SPRINGFIELD OHIO By whom made SUPERIOR ENGINE DIVISION OF NATIONAL SUPPLY CO P 23318  
 Generators made at DAYTON OHIO By whom made DELCO PRODUCTION DIVISION OF GENERAL MOTORS CORP P 111T  
 Contract No. S 23386 When made 1942  
 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  
 Mid. length thickness 1 1/4" Thickness around eye hole  
 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

IR 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 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 ✓  
 (If not, state date of approval)  
 GEAR To Rule requirements

The foregoing is a correct description,

Manufacturer.



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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..... (P) D 2789 (S) 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.

IM - 3-42 - Transfer. (Printed in U. S. A.)

The amount of Fee .....	£	✓	:	<div style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; display: inline-block;">                 When applied for,  <div style="border-top: 1px solid black; text-align: center;">19</div> </div>
Travelling Expenses (if any) .....	£	✓	:	
			:	<div style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; display: inline-block;">                 When received,  <div style="border-top: 1px solid black; text-align: center;">19</div> </div>

Bloomfield for W. S. Keller & Self  
Surveyor to Lloyd's Register of Shipping.  
Bangladesh. P 920307  
S 920309

Committee's Minute

NEW YORK MAR 16 1949

Assigned See first entry report attached.

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