

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 5147

Received at London Office -6 MAY 1931
 Port of *Glasgow*
 Date, First Survey
 Last Survey *23rd April 1931*
 Number of Visits

0364 on the *Single* *Twin* *Triple* *Quadruple* Screw vessel
 "Opawa"
 Tons Gross *10107* Net *6068*
 Built at *Glasgow* By whom built *A. Stephen & Co. Ltd.* Yard No. *532* When built *1931*
 Owners *New Zealand Shipping Co. Ltd.* Port belonging to *Plymouth*
 Oil Engines made at *Liverpool* By whom made *Messrs Ruston & Proctor* Contract No. When made *1920*
 Generators made at By whom made Contract No. When made
 No. of Sets *3* Engine Brake Horse Power *4500* Nom. Horse Power as per Rule Total Capacity of Generators *918* Kilowatts.
See summary certificate No. 2407.

ENGINE, &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 Thickness parallel to axis
 Mid. length thickness shrunk Thickness around eye-hole
 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
 Sucking Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Is 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
 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
 Pressure of supply volts. Load Amperes. Direct or Alternating Current
 Alternating current system, state frequency of periods per second
 Are the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off
 Generators, do they comply with the requirements regarding rating are they compound wound
 Are they over compounded 5 per cent. if not compound wound state distance between each generator
 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
 Are approved plans forwarded herewith for Shafting Receivers Separate Tanks
 (If not, state date of approval)

ARE GEAR
 See attached List.

The foregoing is a correct description.
 Manufacturer.

Lloyd's Register
Foundation