

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 48950

13 MAR 1929

of writing Report *9th March 1929* When handed in at Local Office *3* 1929 Port of *Glasgow*
in Survey held at *Glasgow* Date, First Survey *25. 10. 27* Last Survey *4. 3. 1929*
Book. Number of Visits *(12)*
on the *Sample* *Twin* *Triple* *Quadruple* Screw vessel *"VICEROY OF INDIA"* Tons *19648*
10069
uilt at *Glasgow* By whom built *A. Stephen & Son Ltd. Yard No 519* When built *1919*
ners *Principles & Oriented Steam, Ltd. Glasgow* Port belonging to *Glasgow*
Engines made at *Springfield* By whom made *Paterson (Springfield) Ltd.* Contract No. *1357* When made *1928*
generators made at *Springfield* By whom made *Paterson (Springfield) Ltd.* Contract No. *1364* When made *1928*
of Sets *3* Engine Brake Horse Power *✓* Nom. Horse Power as per Rule *✓* Total Capacity of Generators *✓* Kilowatts.

ENGINES, &c.—Type of Engines *Vertical* 2 or 4 stroke cycle *Single or double acting*

Minimum pressure in cylinders _____ Diameter of cylinders _____ Length of stroke _____ No. of cylinders _____ No. of cranks _____

Position 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* _____ Crank pin dia. _____ Crank Webs _____ Mid. length breadth _____ Thickness parallel to axis _____
shrunk _____ Mid. length thickness _____ Thickness around eye-hole _____

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

Is a governor or other arrangement fitted to prevent racing of the engine when decoupled _____ Means of lubrication _____

Are the cylinders fitted with safety valves _____ Are the exhaust pipes and silencers water cooled or lagged with non-conducting material _____

Boiling 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 _____

Exhausting Air Pumps, No. _____ Diameter _____ Stroke _____ Driven by _____

AIR 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 _____

Is an 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 _____

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

Are they over compound *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 _____

TANKS. Are approved plans forwarded herewith for Shafting _____ Receivers _____ Separate Tanks _____
(If not, state date of approval)

ARE GEAR *See above Report.*

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

See accompanying Machy Report

Dates of Examination of principal parts—Cylinders Covers Pistons Piston rods
 Connecting rods Crank and Flywheel shaft Intermediate shaft
 Crank and Flywheel shaft, Material 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.)

These auxiliary generators have now been fitted on board the above Vessel and found satisfactory under working conditions

A.B.
 9/3/29

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

M. Lane

Surveyor to Lloyd's Register of Shipping.

TUE. 9 APR. 1929

Committee's Minute GLASGOW 19 MAR 1929

Assigned See accompanying Machy Report L.A.H.