

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15188

Received at London Office 19 OCT 1933

Writing Report 11.9.33 When handed in at Local Office 19.9.33 Port of Southampton  
Survey held at Jeveil Date, First Survey 28.7.33 Last Survey 7.9.33  
Number of Visits 3

20. on the Single Screw vessel Motor tank Barge SEVERN CARRIER Tons Gross 118  
Triple  
Quadruple  
at Bristol By whom built Charles Hill Yard No. 205 When built 1933

Engines made at Jeveil, England By whom made Petters Ltd. Contract No. When made 1933  
Generators made at By whom made Brampton Parkinson Contract No. When made 1933

of Sets 1 Engine Brake Horse Power 7 Nom. Horse Power as per Rule Total Capacity of Generators 2 1/2 Kilowatts.

ENGINES, &c.—Type of Engines Petters Atomic Diesel 2 or 4 stroke cycle 2 Single or double acting Single  
Working pressure in cylinders 630 lb Diameter of cylinders 4 1/2 Length of stroke 6 1/4 No. of cylinders 1 No. of cranks 1  
Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/8 Is there a bearing between each crank Yes  
Revolutions per minute 650 Flywheel dia. 28 Weight 340 lb Means of ignition Compression Kind of fuel used Heavy Oil  
Crank Shaft, dia. of journals 2 1/2 Crank pin dia. 2 1/2 Mid. length breadth 3 3/8 Thickness parallel to axis  
as fitted 2 1/2 Crank Webs Mid. length thickness 1 3/4 shrunk Thickness around eye-hole  
Cylinder Head Shaft, diameter 2 1/2 Intermediate Shafts, diameter as per Rule Thickness of cylinder liners  
as fitted 2 1/2

Governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Oil  
Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Number of Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel  
Number of Heating Oil Pumps, No. and size 1 mechanical

Number of Compressors, No. 1 No. of stages Single Diameters 3 Stroke 3 1/2 Driven by Aux Engine  
Number of Suctioning 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

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness  
Type of joint, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Heating Air Receivers, No. Total cubic capacity Internal diameter thickness  
Type of joint, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type Brampton Parkinson 4 pole  
Voltage of supply 110 volts. Load 68 Amperes. Direct or Alternating Current DC  
Is the alternating current system, state frequency of periods per second

Is an Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes  
Do the generators, do they comply with the requirements regarding rating Yes are they compound wound Yes

Are the generators over compounded 5 per cent. if not compound wound state distance between each generator  
Is there adjustable regulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes

Are the terminals 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

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

Is there a GEAR See attached list

The foregoing is a correct description,

Robertson P. P. Petters Ltd. Manufacturer.



Dates of Survey while building  
 During progress of work in shops - 29-7-33 28-8-33 7-9-33  
 During erection on board vessel - Sept. 21, 22  
 Total No. of visits 5

Dates of Examination of principal parts - Cylinders 28-7-33 Covers 28-7-33 Pistons 28-7-33 Piston rods 28-7-33

Connecting rods ✓ Crank and Flywheel shaft 28-7-33 Intermediate shaft ✓

Crank and Flywheel shafts, Material *cast steel* 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.)

*This auxiliary machinery has been constructed under special survey according to the Rules & approved plans & the materials & workmanship are sound & good.*

*The machinery has been tried in the Shop under working conditions & found satisfactory.*

*This auxiliary machinery has now been fitted & secured on board according to the Rules, it has been tried under full working conditions & found satisfactory.*

*John L. Coyne & J. Macmillan & J. Anderson*  
 Surveyors to Lloyd's Register of Shipping

FRI. 3 NOV 1933

*See Bns. J.E. 12969*



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1m. 9.28 - Transfer.  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

Committee's Minute

Assigned