

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 107023

Received at London Office 27 FEB 1939
 Reporting Report 12-2-1939. When handed in at Local Office 27 FEB 1939 Port of Ipswich.
 Survey held at Colchester Date, First Survey 26-10-38 Last Survey 1-2-1939.
 Number of Visits FIVE.

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel "BARIMA"
 at Grimsby By whom built Ferguson Bros. Yard No. 340 When built 1939.
 Port belonging to

Engines made at Colchester By whom made Dawy, Paxman & Co. (Colchester) Ltd. Contract No. 1174. When made 1939.
 Motors made at Horwich By whom made Lawrence Scott & Electromotors Ltd. Contract No. 78095 When made
 Sets 6 Engine Brake Horse Power 33 Nom. Horse Power as per Rule Total Capacity of Generators 15 Kilowatts.

ENGINES, &c.—Type of Engines Heavy Oil 2 or 4 stroke cycle 4 Single or double acting Single
 Mean pressure in cylinders 700 lbs. Diameter of cylinders 4 5/8" Length of stroke 5 7/8" No. of cylinders 3 No. of cranks 3
 M.P. 120 lbs. Diameter of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/8" Is there a bearing between each crank No
 Turns per minute 1100 Flywheel dia. 28" Weight 425 lbs. Means of ignition Compression Kind of fuel used Diesel
 Shaft, dia. of journals as per Rule 3 1/8" app. Crank pin dia. 2 7/8" Mid. length breadth 4 1/2" Thickness parallel to axis
 as fitted 3 1/8" Crank Webs Mid. length thickness 1 1/4" shrunk Thickness around eyehole
 Wheel Shaft, diameter as per Rule 3 1/8" Intermediate Shafts, diameter as fitted Thickness of cylinder liners 1/8"
 Governor or other arrangement fitted to prevent racing of the engine when declutched No Means of lubrication Forced
 Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged.
 Cooling Water Pumps, No. 6 Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 Lubricating Oil Pumps, No. and size 6 geared. 5/8" suction & delivery.
 Compressors, No. 6 No. of stages 2 Diameters 1 1/4" & 3 1/4" Stroke 3" Driven by Generator Engine
 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
 Material Range of tensile strength Working pressure by Rules
 Working Air Receivers, No. Total cubic capacity Internal diameter thickness
 Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type Enclosed untilted, drip-proof.
 Voltage of supply 220 volts. Load 68 Amperes. Direct or Alternating Current Direct
 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
 Do the 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 there 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 29-8-38 Receivers Separate Tanks

SHAFTING GEAR

The foregoing is a correct description,
 DAVEY, PAXMAN & CO. (Colchester) Limited,
 GENERAL MANAGER.



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18-11-38

Dates of Survey while building	{	During progress of work in shops--	26-10-38	6-12-38	2-1-39	1-2-39
		During erection on board vessel---				
		Total No. of visits	Five			

Dates of Examination of principal parts—Cylinders 26-10-38 Covers 26-10-38 Pistons 18-11-38 Piston rods ✓

Connecting rods 18-11-38 Crank and Flywheel shaft 18-11-38 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel Identification Mark LLOYDS. N° 9241. GRC. 23-9

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.)

The engine has been constructed under special Survey in accordance with the Rule requirements.

The materials & workmanship are sound & of good description.

The engine has been tested in the Shop for a period of six hours & found satisfactory and has been dispatched to Greenock to be fitted on a classed vessel.

This Generator & Compressor set has been fitted in the vessel at Port Glasgow.

J. Boyle, Greenock. 25/5/39.

The amount of Fee ...	Inclusion	{	When applied for,
			19
Travelling Expenses (if any) £	5/6	{	When received,
			19

J. Boyle
Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 30 MAY 1939**

Assigned **SEE ACCOMPANYING MACHINERY REPORT.**