

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

DEC -1 1937

No. 104912

Received at London Office 27 SEP 1937

Writing Report 22-9-1937. When handed in at Local Office 19 Port of Spewich  
 Survey held at Colchester Date, First Survey 22-1-17 Last Survey 15-9-1937.  
 Number of Visits THREE.

on the Single Screw vessel Twin S.S. "EL MADINA" Tons { Gross ☒ Net ☒  
Glasgow By whom built Barclay, Curle & Co. Ltd. Yard No. 666. When built ☒  
 Port belonging to ☒

Engines made at Colchester By whom made Davey, Paxman & Co. (Colchester) Ltd. Contract No. 965. When made 1937.  
 Motors made at Birkenhead By whom made Campbell & Johnson Ltd. Contract No. 11259. When made 1937.  
 Sets One Engine Brake Horse Power 40/44 Nom. Horse Power as per Rule 12. Total Capacity of Generators 25 Kilowatts.

ENGINES, &c.—Type of Engines Heavy Oil 2 or 4 stroke cycle 4. Single or double acting Single  
 Pressure in cylinders 750 lb. Diameter of cylinders 4 5/8" Length of stroke 5 7/8" No. of cylinders 4 No. of cranks 4  
 Bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/8" Is there a bearing between each crank No  
 Revolutions per minute 1000 Flywheel dia. 28" Weight 500 lbs. Means of ignition Compression Kind of fuel used Seisil  
 Shaft, dia. of journals 3 1/8" app. Crank pin dia. 2 1/8" Crank Webs Mid. length breadth 3 1/4" Thickness parallel to axis ☒  
 as fitted 3/8" Mid. length thickness 1 3/8" Thickness around eyehole ☒  
 as per Rule 3/8" Intermediate Shafts, diameter 3/8" as per Rule ☒ Thickness of cylinder liners 1/8"  
 as fitted 3/8" as fitted ☒

Governor or other arrangement fitted to prevent racing of the engine when declutched No Means of lubrication Forced.  
 Cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material ☒  
 Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel ☒  
 Lube Oil Pumps, No. and size One 1/2" 5/8" suction & delivery  
 Compressors, No. ☒ No. of stages ☒ Diameters ☒ Stroke ☒ Driven by ☒  
 Suctioning Air Pumps, No. ☒ Diameter ☒ Stroke ☒ Driven by ☒

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule ☒  
 Internal surfaces of the receivers be examined ☒ What means are provided for cleaning their inner surfaces ☒  
 A drain arrangement fitted at the lowest part of each receiver ☒  
 Pressure Air Receivers, No. ☒ Cubic capacity of each ☒ Internal diameter ☒ thickness ☒  
 Joints, lap welded or riveted longitudinal joint ☒ Material ☒ Range of tensile strength ☒ Working pressure by Rules ☒  
 Suctioning Air Receivers, No. ☒ Total cubic capacity ☒ Internal diameter ☒ thickness ☒  
 Joints, lap welded or riveted longitudinal joint ☒ Material ☒ Range of tensile strength ☒ Working pressure by Rules ☒

ELECTRIC GENERATORS:—Type Drip proof  
 Voltage of supply 110 volts. Load 227. Amperes. Direct or Alternating Current Direct.  
 Generating current system, state frequency of periods per second ☒  
 Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off ☒  
 Motors, do they comply with the requirements regarding rating ☒ are they compound wound ☒  
 If not compound wound state distance between each generator ☒  
 Adjustable regulating resistance fitted in series with each shunt field ☒ Are all terminals accessible, clearly marked, and furnished with sockets ☒  
 Are 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 18-1-37 Receivers ☒ Separate Tanks ☒  
 (If not, state date of approval)

GEAR

The foregoing is a correct description,

for and on behalf of

DAVEY, PAXMAN & CO. (Colchester) Limited

Manufacturer.

for General Manager.



© 2020

Lloyd's Register Foundation

W240-0107



Dates of Survey while building { During progress of work in shops - 22-1-37, 10-9-37, 15-9-37.  
During erection on board vessel - - -  
Total No. of visits THREE.

Dates of Examination of principal parts—Cylinders 22-1-37. Covers 22-1-37 Pistons 22-1-37 Piston rods ✓

Connecting rods 22-1-37. Crank and Flywheel shaft 22-1-37 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel Identification Mark LLOYDS No 6376. M.A.B. 18-5-36.

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 good.

The engine has been dispatched to Glasgow to be fitted on board a Classed vessel.

The amount of Fee ... £ 5- :

When applied for,

27 SEP 1937

Travelling Expenses (if any) £

5/6 :

When received,

10/11/37.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute SEE ACCOMPANYING MACHINERY REPORT.

Assigned

See Glasgow Report

No. 59070.

GLASGOW 30 NOV 1937



Lloyd's Register Foundation