

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 22-1-37 Last Survey 15-9-1937
Number of Visits THREE

on the Single Screw vessel Twin S.S. 'EL MADINA' Tons { Gross
 Triple
 Quadruple Net

at 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.

Generators 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

Working 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

M.I.P. 104 lb. 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 Residual

Shaft, dia. of journals as per Rule 3 1/8" app. Crank pin dia. 2 1/8" Crank Webs Mid. length breadth 3 3/4" Thickness parallel to axis
as fitted 3/8" Mid. length thickness 1 3/8" Thickness around eyehole

Propeller Shaft, diameter as per Rule 3 1/8" Intermediate Shafts, diameter 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

Operating Oil Pumps, No. and size One geared. 5/8" suction & delivery.

Compressors, No. No. of stages Diameters Stroke Driven by

Blasting 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

Is a drain arrangement fitted at the lowest part of each receiver

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Seams, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Low Pressure Air Receivers, No. Total cubic capacity Internal diameter thickness

Seams, 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.

Operating current system, state frequency of periods per second

Has an Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off No

Generators, do they comply with the requirements regarding rating are they compound wound No

Are they over compounded 5 per cent. 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 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 18-1-37 Receivers Separate Tanks

(If not, state date of approval)

SHAFTING AND GEAR

The foregoing is a correct description,

for and on behalf of
DAVEY, PAXMAN & CO. (Colchester) Limited
Manufacturers.

[Signature]
for General Manager.



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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 N° 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 Rules requirements. The materials & workmanship are good. The engine has been dispatched to Glasgow to be fitted on board a Clusard vessel.

(The Surveyors requested not to write on or below the space for Committee Minute.)
 100481—Transfer.

The amount of Fee ... £ 5- : :
 Travelling Expenses (if any) £ : 5/6 : :
 When applied for, 27 SEP 1937
 When received, 10/11/37

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

Committee's Minute SEE ACCOMPANYING MACHINERY REPORT.
 Assigned See Glasgow Report No. 59070