

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 1373

Received at London Office - 2 JUN 1933

Date of writing Report May 2 1933 When handed in at Local Office 29. 5 1933 Port of Cadiz  
No. in Survey held at Cordova Date, First Survey April 20 Last Survey April 22 1933  
Reg. Book. Number of Visits 3 days

Single  
Twin  
Triple  
Quadruple

Screw vessel "Campero"

Tons { Gross   
Net

Built at Cadiz By whom built Echegarai y Larrinaga Yard No. 24 When built 1933

Owners Cia Arrendataria del Monopolio de Petroleos. S.A. Port belonging to

Oil Engines made at Bilbao By whom made SE de CN Contract No. \_\_\_\_\_ When made 1933

Generators made at Cordova By whom made Constructora Nacional de Maquinaria Electrica Contract No. O.P.I. 412 When made 1933

No. of Sets 2 Engine Brake Horse Power  Nom. Horse Power as per Rule  Total Capacity of Generators 140 Kilowatts.

OIL ENGINES, &c.—Type of Engines 2 or 4 stroke cycle Single or double acting \_\_\_\_\_

Maximum pressure in cylinders \_\_\_\_\_ Diameter of cylinders \_\_\_\_\_ Length of stroke \_\_\_\_\_ No. of cylinders \_\_\_\_\_ No. of cranks \_\_\_\_\_

Span 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 \_\_\_\_\_ as fitted \_\_\_\_\_ Crank pin dia. \_\_\_\_\_ Crank Webs \_\_\_\_\_ Mid. length breadth \_\_\_\_\_ Thickness parallel to axis \_\_\_\_\_ Mid. length thickness \_\_\_\_\_ Thickness around eyehole \_\_\_\_\_

Flywheel Shaft, diameter \_\_\_\_\_ as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ Intermediate Shafts, diameter \_\_\_\_\_ as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ Thickness of cylinder liners \_\_\_\_\_

Is a governor or other arrangement fitted to prevent racing of the engine when declutched \_\_\_\_\_ Means of lubrication \_\_\_\_\_

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

Cooling 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 \_\_\_\_\_

Scavenging Air Pumps, No. \_\_\_\_\_ Diameter \_\_\_\_\_ Stroke \_\_\_\_\_ Driven by \_\_\_\_\_

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule \_\_\_\_\_

Can 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 S R 250.

Pressure of supply 220 volts. Load 318 Amperes. Direct or Alternating Current Direct

If 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 yes are they compound wound yes

are they over compounded 5 per cent. yes, if not compound wound state distance between each generator \_\_\_\_\_

is an adjustable regulating resistance fitted in series with each shunt field yes Are all terminals accessible, clearly marked, and furnished with sockets yes

are they 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

PLANS. Are approved plans forwarded herewith for Shafting Yes Receivers  Separate Tanks

SPARE GEAR

The foregoing is a correct description.

CONSTRUCTORA NACIONAL DE MAQUINARIA ELECTRICA  
FABRICA DE CORDOVA Manufacturer.

*V. Reguero*  
DIRECTOR



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Lloyd's Register

013671-013677-0118 Foundation

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits

3 days 6 Trials

Dates of Examination of principal parts - Cylinders ✓ Cores ✓ Pistons ✓ Piston rods ✓

Connecting rods ✓ Crank and Flywheel shaft ✓ Intermediate shaft ✓

Crank and Flywheel shafts, 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.) *The workmanship on these Generators is very good and the two now examined and tested are eligible in my opinion to be closed after completion of the trials yet to be carried out when mounted on board*

Im. 9. 98 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... *Pls 300-00* When applied for, *May 14 1933*

Travelling Expenses (if any) £ *268-00* When received, *May 24 1933*

*T. Probert*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRL 15 JUN 1934**

Assigned *See Cd 1422*

