

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10600

Received at London Office 18 JUL 1927

Date of writing Report 12 July 1927 When handed in at Local Office 19 Port of AMSTERDAM

No. in Survey held at AMSTERDAM Date, First Survey 11th Febr. '25 Last Survey 6th Dec. 1926  
No. of Visits 19

on the <sup>Single</sup> ~~Triple~~ ~~Quadruple~~ Screw vessel "SPONDILUS" Tons { Gross - Net -

built at Rotterdam By whom built Maatschappij Fyenoord Yard No. 303 When built 1927

owners Anglo-Saxon Petroleum Co. Port belonging to -

Oil Engines made at Amsterdam By whom made Werkspoor Contract No. - When made 1926.

Generators made at - By whom made - Contract No. - When made -

No. of Sets 3 Engine Brake Horse Power 50 Nom. Horse Power as per Rule 14 Total Capacity of Generators - Kilowatts.

TYPE OF ENGINES, &c. Type of Engines 3-4 S.C.S.A. ~~Steel~~ 4 stroke cycle Single or double acting

Maximum pressure in cylinders 30 kg/cm<sup>2</sup> Diameter of cylinders 320 mm Length of stroke 450 mm No. of cylinders 1 No. of cranks 1

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 430 mm Is there a bearing between each crank One each.

Revolutions per minute 250 Flywheel dia. 1900 mm Weight 3000 kg Means of ignition Self-ignition Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule <sup>approved</sup> 185 mm as fitted 185 mm Crank pin dia. 185 mm Crank Webs Mid. length breadth 290 mm Thickness parallel to axis <sup>solid</sup> Mid. length thickness 100 mm shrunk Thickness around eye-hole

Flywheel Shaft, diameter as per Rule 6 as fitted 6 Intermediate Shafts, diameter as per Rule 6 as fitted 6 Thickness of cylinder liners 6

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

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material N.P.M.

Boiling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel 6

Lubricating Oil Pumps, No. and size 6

Air Compressors, No. one No. of stages 2 Diameters 50-160 mm Stroke 130 mm Driven by Shaft

Saving Air Pumps, No. 1 Diameter 6 Stroke 6 Driven by 6

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

Are the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces with steam

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

High Pressure Air Receivers, No. 3 Cubic capacity of each 30 L Internal diameter 190 mm thickness 9 mm

Seamless, lap welded or riveted longitudinal joint Monometal Steel Range of tensile strength 20/32 tons Working pressure by Rules <sup>approved</sup>

Working Air Receivers, No. 1 Total cubic capacity 6 Internal diameter 6 thickness 6

Seamless, lap welded or riveted longitudinal joint 6 Material 6 Range of tensile strength 6 Working pressure by Rules 6

ELECTRIC GENERATORS:—Type 6

Pressure of supply 6 volts. Load 6 Amperes. Direct or Alternating Current 6

Is an alternating current system, state frequency of periods per second 6

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off 6

Do the generators, do they comply with the requirements regarding rating 6 are they compound wound 6

Are they over compounded 5 per cent. 6, if not compound wound state distance between each generator. 6

Is an adjustable regulating resistance fitted in series with each shunt field 6 Are all terminals accessible, clearly marked, and furnished with sockets. 6

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched. 6 Are the lubricating arrangements of the generators as per Rule 6

Are approved plans forwarded herewith for Shafting <sup>Plans</sup> Receivers <sup>to London</sup> Separate Tanks 6  
(If not, state date of approval) 24.12.24.

RE GEAR <sup>Plan. See list attached.</sup>

WERKSPoor

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register Foundation

002938-00946-0123

Dates of Survey while building  
 During progress of work in shops - 11/2. 5/5. 8/4. 26/8. 14/9. 20/10. 14/11. 1925. 14/11. 12. 5/13. 9/4. 5/5. 4/6. 8/4. 9/8. 3/9. 8/10. 14/11. 6/12. 1926.  
 During erection on board vessel -  
 Total No. of visits 19.

Dates of Examination of principal parts - Cylinders 11/2. 25 - 8/17. 26. Covers 14/11. 25 - 8/17. 26. Piston rods 14/11. 25 - 8/17. 26. Piston rods 14/11. 25 - 8/17. 26.

Connecting rods 5/5. 25. - 5/5. 26. Crank and Flywheel shaft 30/3. - 10/8. 26. Intermediate shaft 14/11. 25 - 8/17. 26.

Crank and Flywheel shaft, Material Steel Identification Mark 358-328-335. Identification Marks 15. 12. 25. 8. 1. 26. Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case? No. If so, state name of vessel M.S. Coldmouth. Arm. Rep. N. 10.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engines have been built under special licence, in accordance with the Rules and Secretary's letter, workmanship good.

Machinery tested on test bed under full working conditions and good.

Engines forwarded to Rotterdam, to be fitted in the M.S. Spruce of yard no: 303. Feymoed.

F. W. Beumer

Im. 7.26-Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... .. £	When applied for,
Travelling Expenses (if any) £	When received,
	19.....

F. W. Beumer  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 7 OCT 1927

Assigned See Minute on Rot Rpt 16809 attached

