

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 10816  
3 NOV 1927

Date of writing Report 14 October 1927 When handed in at Local Office 19 Port of AMSTERDAM  
No. in Survey held at AMSTERDAM Date, First Survey 3/12 1924 Last Survey 10/10 1927  
Reg. Book. 20835 on the XXXX Single Screw vessel "ELAX" Tons { Gross 7400 Net 7400  
Built at Amsterdam By whom built Nederl. Schipsb. My. Yard No. 184 When built 1927  
Owners Anglo-Saxon Petroleum Co. Ltd. Port belonging to London  
Oil Engines made at Amsterdam By whom made Werkspoor Contract No. - When made 1927  
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.

**IL ENGINES, &c.**—Type of Engines 3-4-5 C.S.A. Diesel En. 2 or 4 stroke cycle Single or double acting Single  
Maximum pressure in cylinders 38 kg/cm<sup>2</sup> Diameter of cylinders 320 mm Length of stroke 450 mm No. of cylinders 1 No. of cranks 1  
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 430 mm Is there a bearing between each crank No  
Revolutions per minute 250 Flywheel dia. 1900 mm Weight 3000 kg Means of ignition Self ignition Kind of fuel used Brown oil  
Crank Shaft, dia. of journals as per Rule Crank pin dia. 185 mm Crank Webs Mid. length breadth 290 mm Thickness parallel to axis as fitted 185 mm Mid. length thickness 100 mm Thickness around eyehole shrunk  
Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners as fitted  
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.C.M.  
Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes  
Lubricating Oil Pumps, No. and size 2  
Air Compressors, No. 2 No. of stages 2 Diameters 50-160 mm Stroke 130 mm Driven by Shift  
Scavenging Air Pumps, No. 2 Diameter 2 Stroke 2 Driven by 2

**AIR RECEIVERS:**—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes  
Can 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 Seamless Material Steel Range of tensile strength 28/32 tons Working pressure by Rules as per  
Starting Air Receivers, No. 2 Total cubic capacity 2 Internal diameter 2 thickness 2  
Seamless, lap welded or riveted longitudinal joint 2 Material 2 Range of tensile strength 2 Working pressure by Rules 2

**ELECTRIC GENERATORS:**—Type Wollem Luit  
Pressure of supply 110 volts. Load 290 Amperes. Direct or Alternating Current Direct current  
If alternating current system, state frequency of periods per second 2  
Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes  
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 2  
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 Retained Receivers in London Separate Tanks Office  
(If not, state date of approval) 24-12-26

SPARE GEAR

Please see list attached

The foregoing is a correct description,

WERKSPoor

Manufacturer.



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Foundation

002374-002384-0127

Dates of Survey while building { During progress of work in shops - 1924. 2/12. 1925. 3/2. 14/5. 26/8. 20/10. 26/11. 24/12. 1926. 14/1. 26/2. 28/4. 3/5. 15/5. 31/5. 30/6. 15/7. pt. 5a.  
 { During erection on board vessel - 1924. 2/12. 14/5. 26/8. 20/10. 26/11. 24/12. 1926. 14/1. 26/2. 28/4. 3/5. 15/5. 31/5. 30/6. 15/7.  
 Total No. of visits 20.

Dates of Examination of principal parts—Cylinders 21/12. 24/12. 26/12. Covers < Pistons 22/24 - 26/26 Piston rods <  
 Connecting rods 21/12. 24/12. 26/12. Crank and Flywheel shaft 21/12 - 25 - 26/26 Intermediate shaft <  
 Crank and Flywheel shaft, Material Steel Identification Mark 15. 12. 25 Intermediate shafts, Material < Identification Marks <

Is this machinery duplicate of a previous case? No If so, state name of vessel M. V. Lam And Reg. No. 10529

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

The engines have been built under Special Survey in accordance with the Rules and Security. Letter, workmanship good. Engines tested under full working conditions and good.

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

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

Committee's Minute

TUES. 8 NOV 1927

Assigned

See Report attached

R. V. Bennett  
 Surveyor to Lloyd's Register of Shipping.



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