

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 10016
NOV 1927

Received at London Office
 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 Single Screw vessel "ELAX" Tons 7400
 Marks XXXXXX
 Built at Amsterdam By whom built Nederl. Schpsb. 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.

OIL ENGINES, &c.—Type of Engines 3-4-5 C.S.A. Diesel Engine 2 or 4 stroke cycle Single or double acting
 Maximum pressure in cylinders 38 kg/cm² 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 Diesel 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
 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 Shaft
 Scavenging Air Pumps, No. 2 Diameter 100 mm. Stroke 100 mm. Driven by Shaft

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 material Steel Range of tensile strength 28/32 tons Working pressure by Rules as per Rule
 Starting Air Receivers, No. 2 Total cubic capacity 20 L. Internal diameter 100 mm. thickness 6 mm.
 Seamless, lap welded or riveted longitudinal joint Material Steel Range of tensile strength 28/32 tons Working pressure by Rules as per Rule

ELECTRIC GENERATORS:—Type Willems Smit
 Pressure of supply 110 volts. Load 290 Amperes. **Direct or Alternating Current** Direct current
 If alternating current system, state frequency of periods per second 50
 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 200 mm.
 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) 24-12-24

SPARE GEAR
Please see list attached

The foregoing is a correct description,

WERKSPOOR
W. Spoor
 Manufacturer.



002374-002384-0127

Dates of Survey while building
 During progress of work in shops - 1/11. 2/11. 1925. 3/2. 14/5. 26/8. 20/10. 26/11. 24/12. 1926. 14/1. 26/2. 24/4. 3/5. 2/5. 3/5. 30/6. 17/7.
 During erection on board vessel - 1/11. 2/11. 11/4. 2/9. 13/10.
 Total No. of visits 20.

Dates of Examination of principal parts—Cylinders 1/11. 26/11. Covers 26/11. Pistons 2/24. 4/11. 26 Piston rods 26
 Connecting rods 2/11. 24. - 3/5. 26 Crank and Flywheel shaft 3/12. 25. - 9/12. 26 Intermediate shaft 26
 Crank and Flywheel shaft, Material Steel Identification Mark 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. 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 Letters, workmanship good. Engines tested under full working conditions and good.

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

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

Committee's Minute TUES. 8 NOV 1927
 Assigned See Report attached

