

pt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10016
3 NOV 1927

Date of writing Report 24 October 1927 When handed in at Local Office 19 Port of AMSTERDAM
 No. in Survey held at AMSTERDAM Date, First Survey 2/12 1924 Last Survey 19/10 1927
 Reg. Book. 20835 on the Single Screw vessel "ELAX" Tons { Gross 7400
 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 1 Engine Brake Horse Power 150 Nom. Horse Power as per Rule 12 Total Capacity of Generators - Kilowatts.

OIL ENGINES, &c.—Type of Engines M 4 S. C. S. A. 3 cylinder Diesel Engine 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 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 430 mm Is there a bearing between each crank Yes
 Revolutions per minute 250 Flywheel dia. 1600 mm Weight 3640 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 240 mm Thickness parallel to axis 100 mm
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners -
 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 -
 Cooling Water Pumps, No. - Is the sea suction provided with an efficient strainer which can be cleared within the vessel A.P.M.
 Lubricating Oil Pumps, No. and size -
 Air Compressors, No. 1 No. of stages 2 Diameters 60-200 mm Stroke 210 mm Driven by Shaft
 Scavenging Air Pumps, No. - Diameter - Stroke - Driven by -

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve 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. 1 Cubic capacity of each 60 L Internal diameter 244 mm thickness 12 mm
 Seamless, lap welded or riveted longitudinal joint Material Steel Range of tensile strength 28/52 ton Working pressure by Rules as per Rule
 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 Used for driving Auxiliary Air Compressors
 Pressure of supply - volts. Load - Amperes. Direct or Alternating Current
 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 - are they compound wound -
 are they over compounded 5 per cent. -, if not compound wound state distance between each generator -
 is an 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 -

PLANS. Are approved plans forwarded herewith for Shafting Approved Receivers Approved Separate Tanks Approved
 (If not, state date of approval) 24-12-24 Secretary's letter

SPARE GEAR

Please see list attached.

The foregoing is a correct description,

WERKSPOOR

[Signature]

Manufacturer.



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Lloyd's Register Foundation

002374-002384-0126

Dates of Survey while building
 During progress of work in shops - 1924 3/12 1925 3/2 14/ 26/ 20/10 26/11 21/12 1926 12/ 26/ 23/ 2/ 3/ 3/30/6 15/ 9/8
 During erection on board vessel - 1924 4/ 14/ 9/9 18/10
 Total No. of visits 20

Dates of Examination of principal parts—Cylinders 3/12.24. 26/26 Covers L
 Connecting rods 3/12.24. - 3/5.26 Crank and Flywheel shaft 3/12.25 - 9/2.26 Pistons 3/2.26 - 4/6.26 Piston rods L
 Crank and Flywheel shaft, Material Steel Identification Mark Lloyd's G.C.O. 26.2.26 Intermediate shafts, Material L Identification Marks L

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.S. Clam. Amst. Reg. No. 105

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The engines have been built under specific licence in accordance with the Rules and Secretary's letter, workmanship engines tried under full working conditions and good.

PILLARS
 Co. Gen. St. P. STR. U.
 The amount of Fee ... £ : :
 Travelling Expenses (if any) £ : :
 Committee's Minute
 Assigned

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

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

F. A. Bennett
 Surveyor to Lloyd's Register of Shipping.

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