

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

Received at London Office

Port of AMSTERDAM

No. in Survey held at AMSTERDAM
Reg. Book.

Date, First Survey 2/12 1924 Last Survey 19/10 19 27
Number of Visits 2

20835 on the Single ~~XXXX~~ ~~XXXX~~ ~~XXXX~~ Screw vessel "ELAX"

Tons { Gross 7400
Net

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 42 Total Capacity of Generators - Kilowatts.

OIL ENGINES, &c.—Type of Engines 4 S. C. S. A. 3 cylinder Diesel 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 as per Rule as fitted 185 mm Crank pin dia. 185 mm Crank Webs Mid. length breadth 240 mm Thickness parallel to axis 100 mm
as fitted 185 mm Mid. length thickness 100 mm shrunk Thickness around eyehole 4 mm

Flywheel Shaft, diameter as per Rule as per Rule as fitted as fitted Intermediate Shafts, diameter as per Rule as per Rule as fitted as fitted 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

Cooling Water Pumps, No. 1 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 1

Air Compressors, No. 1 No. of stages 2 Diameters 60-200 mm Stroke 210 mm Driven by Shaft

Scavenging Air Pumps, No. 1 Diameter 100 mm Stroke 100 mm Driven by 1

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. 1 Cubic capacity of each 60 L Internal diameter 244 mm thickness 12 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 28/32 ton Working pressure by Rules as per Rule

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

Seamless, lap welded or riveted longitudinal joint 1 Material 1 Range of tensile strength 1 Working pressure by Rules 1

ELECTRIC GENERATORS:—Type Used for driving Auxiliary Air Compressor

Pressure of supply 1 volts. Load 1 Amperes. Direct or Alternating Current

If alternating current system, state frequency of periods per second 1

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off 1

Generators, do they comply with the requirements regarding rating 1 are they compound wound

are they over compounded 5 per cent. 1, if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field 1 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 1 Are the lubricating arrangements of the generators as per Rule

PLANS. Are approved plans forwarded herewith for Shafting As per Rule Receivers As per Rule 24-12-24 Separate Tanks As per Rule

SPARE GEAR

Please see list attached.

The foregoing is a correct description,

WERKSPoor

Manufacturer.



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Foundation

002374-002384-0126

Dates of Survey while building
During progress of work in shops - 1924 3/12 1925 3/2 14/5 26/10 26/11 21/12 1926 14/2 26/2 24/3 3/5 30/6 15/7 9/8
During erection on board vessel - 1924 4/2 14/4 9/9 18/10
Total No. of visits 20

Dates of Examination of principal parts—Cylinders 3/12.24. 26/2.26. Covers L
Connecting rods 3/12.24. - 3/5.26 Crank and Flywheel shaft 3/12.25 - 9/2.26
Crank and Flywheel shaft, Material Steel Identification Mark Lloyd's
Is this machinery duplicate of a previous case Yes If so, state name of vessel M.S. Clam. And Reg. No. 105
Intermediate shafts, Material L Identification Marks L

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 of engines tried under full working conditions and good.

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

Committee's Minute

TUES. 8 NOV 1927

Assigned

See P. 21 pt. attached

F. C. R. Bennett
Surveyor to Lloyd's Register of Shipping.



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