

REPORT ON OIL ENGINE ~~ELECTRIC GENERATOR SETS~~

No. 48.

Date of writing Report

July 1930

When handed in at Local Office

Obermühl

19

Port of

Received at London Office

21 AUG 1930
13 JUL 1931No. in Survey held at
Reg. Book.

Date, First Survey

1st March

Last Survey

19th July 1930.

Number of Visits

3

 Single
on the Twin
Triple
Quadruple
Screw vessel
Tons { Gross
Net

Built at

Amsterdam

By whom built

Groeneveld v.d. Poel & Co.

Yard No.

When built

Owners

Port belonging to

Oil Engines made at

Obermühl

By whom made

Motorenfabrik Deutz

Contract No.

178317/18

When made 1930.

Generators made at

By whom made

Contract No.

When made

No. of Sets

1

Engine Brake Horse Power

25

Nom. Horse Power as per Rule

7

Total Capacity of Generators

Kilowatts.

OIL ENGINES, &c.—Type of Engines

Heavy Oil Engine Type P. 16. L. 122

stroke cycle

Single or double acting

Maximum pressure in cylinders

45 kg/cm²

Diameter of cylinders

150 mm.

Length of stroke

220 mm.

No. of cylinders

2

No. of cranks

2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge

200 mm.

Is there a bearing between each crank

yes

Revolutions per minute

550

Flywheel dia.

750 mm.

Weight

295 kg.

Means of ignition

solid injection

Kind of fuel used

✓

Crank Shaft, dia. of journals

as per Rule

90 mm.

Crank pin dia.

90 mm.

Crank Webs

Mid. length breadth

128 mm.

Thickness parallel to axis

✓

Flywheel Shaft, diameter

as per Rule

75 mm.

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted

Thickness of cylinder liners

16 mm.

Is a governor or other arrangement fitted to prevent racing of the engine when declutched

Means of lubrication

by pressure

Are the cylinders fitted with safety valves

yes

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

lagged

Cooling Water Pumps, No.

1

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

✓

Lubricating Oil Pumps, No. and size

1

Air Compressors, No.

✓

No. of stages

✓

Diameters

✓

Stroke

Driven by

✓

Scavenging Air Pumps, No.

✓

Diameter

✓

Stroke

✓

Driven by

✓

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

Can the internal surfaces of the receivers be examined

What means are provided for cleaning their inner surfaces

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

High Pressure Air Receivers, No.

✓

Cubic capacity of each

Internal diameter

thickness

Seamless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

Starting Air Receivers, No.

1

Total cubic capacity

120 liters

Internal diameter

302 mm.

thickness

8 mm.

Seamless, lap welded or riveted longitudinal joint

seamless

Material

S. 16. Steel

Range of tensile strength

60.4 kg/mm²

Working pressure by Rules

500 lbs.

ELECTRIC GENERATORS:—Type

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

ANS. Are approved plans forwarded herewith for Shafting

(If not, state date of approval)

Receivers

Separate Tanks

ARE GEAR

1st spare gear delivered by order of the Owners.

The foregoing is a correct description.

Motorenfabrik Deutz

Aktiengesellschaft

Manufacturer.



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Lloyd's Register
Foundation

002970-002977-0025

Dates of Survey while building
During progress of work in shops - 1st March, 18th July and 19th July 1930.
During erection on board vessel -
Total No. of visits 3

Dates of Examination of principal parts - Cylinders 1st March, Covers 1st March, Pistons 19th July, Piston rods
Connecting rods 19th July, Crank and Flywheel shaft 4th April, 19th July, Intermediate shaft
Crank and Flywheel shafts, Material S. M. Steel, Identification Mark 319 S.P. 4. 4. 30.

Intermediate shafts, Material

Identification Marks

Is this machinery duplicate of a previous case yes If so, state name of vessel Type P. 16. L. 122.

General Remarks (State quality of workmanship, opinions as to class, &c.) This auxiliary oil engine was built in accordance with the approved plans and the requirements of the Society's Rules. Material and workmanship are of the best quality, the outfit is ample. The engine has been tested under full working condition for 2 hours and for further 2 hours with 10% overload on the trial bed in the makers shop with satisfactory results. After trial all working parts of the engine have been examined after opening and were found in safe working condition. The engine has been built under special survey and is eligible in my opinion for notation in the Society's Register Book with **L.M.G.** after having been satisfactory erected on board of vessel.

J. No. 5372.

The amount of Fee ... £ 2 : 0 :
Travelling Expenses (if any) £ 1 : 12 :
When applied for, 27/7 1930
When received, 18.9.30

Jul. Anst
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 17 JUL 1931

Assigned

See J. E. Rpt.



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