

Rpt. 4c.

REPORT ON OIL ENGINE ~~ELECTRIC GENERATOR SETS~~

No. 44.

13 JUL 1931

21 AUG 1930

Date of writing Report July 1930 When handed in at Local Office

Port of

Received at London Office

No. in Survey held at Reg. Book.

Date, First Survey 1st March Last Survey 12th July 1930.

Number of Visits 3

Single
on the Twin
Triple
Quadruple
Screw vesselTons } Gross
Net

Built at Amsterdam By whom built Groeneweld & J. P. de Bo. Yard No. When built

Owners Port belonging to

Oil Engines made at Obornsel By whom made Motorenfabrik Deutz Contract No. 178315/16 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 4 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil Engine Type P. 16. 122 2 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. 450 mm Weight 255 kg. Means of ignition roller injection Kind of fuel used

Crank Shaft, dia. of journals as per Rule 90 mm as fitted 90 mm Crank pin dia. 90 mm Crank Webs Mid. length breadth 128 mm Mid. length thickness 50 mm Thickness parallel to axis Thickness around eyehole

Flywheel Shaft, diameter as per Rule 45 mm as fitted 45 mm Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 16 mm

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

LANS. Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

PARE GEAR 10 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

002970-002977-0021

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 19th febr. 19th July Intermediate shaft 140 2 1/2 1/2 1/2
 Crank and Flywheel shafts Material S. W. Steel Identification Mark 19. 2. 30

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel Type P. M. Z. 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 be eligible in my opinion for notation in the Society's Register Book with L.M.C. after having been satisfactory erected on board of vessel.

The amount of Fee ... £ 2 : 0 :
 Travelling Expenses (if any) £ 1 : 12 :
 J. No. 5372
 When applied for, 27/7 19.30
 When received, 18.9.30

Committee's Minute FRI. 17 JUL 1931
 Assigned See J.E. Rpt.

J. L. Quast
 Surveyor to Lloyd's Register of Shipping.

For S.S.O.F. please see F.E. Rpt. M.V. "Yinegara", Ans 12172

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