

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11757

Received at London Office 25 AUG 1945

pt. 4c.

Date of writing Report 2nd August 1945 When handed in at Local Office 1945 Port of Copenhagen
No. in Survey held at Halundborg & Odense Date, First Survey 10th October 1939 Last Survey 4th July 1945
No. of Sets 1 Engine Brake Horse Power 30/36 Nom. Horse Power as per Rule 11 Total Capacity of Generators 18 Kilowatts

Single on the Twin Triple Quadruple Screw vessel MOTOR CAROLINE MERSE. Tons Gross 10043.07 Net 6096.87
Built at Odense By whom built Odense Skibskibsverft 1/5 Yard No. 83 When built
Owners Dampskibsselskabet af 1912 1/5 - 2/5 Dampskibsselskabet "Bendbo" belonging to Fredericia
Engines made at Halundborg By whom made Motorfabriken Bueh 1/5 ENGINE 4682 When made 1940
Generators made at Odense By whom made Thomas B Thirige GENERATOR 234673 When made 1940

OIL ENGINES, &c.—Type of Engine Heavy oil engine, trunk piston, solid ring 2 or 4 stroke cycle 4 Single or double acting single
Maximum pressure in cylinders 49 kg/cm² Diameter of cylinders 135 3/4 Length of stroke 180 1/2 No. of cylinders 4 No. of cranks 4
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 138 1/4 Is there a bearing between each crank yes
Revolutions per minute 600 Flywheel dia. 675 1/4 Weight 264 kg Means of ignition Compression kind of fuel used heavy oil F.A below 150F
Crank Shaft, dia. of journals as per Rule 71.5 1/4 as fitted 95.4 1/4 Crank pin dia. 85 1/4 Crank Webs Mid. length breadth 135 1/4 Thickness parallel to axis
Mid. length thickness 37 1/2 shrunk Thickness round eyehole
Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 15 1/4
Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced

Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled
Cooling Water Pumps, No. 1 off 800 liter/hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
Lubricating Oil Pumps, No. and size 1 off 400 liter/hour

Air Compressors, No. No. of stages Diameters Stroke Driven by
Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey State No. of Report or Certificate
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 Internal diameter thickness
Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type Drip proof ventilated
Pressure of supply 110 volts Full Load Current 164 Amperes Direct or Alternating Current direct current
If alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown on and off yes Generators, are they compounded as per Rule yes 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
If the generators are under 100 kw. full load rating, have the makers supplied certificates of test yes and do the results comply with the requirements yes
If the generators are 100 kw. or over have they been built and tested under survey

PLANS.—Are approved plans forwarded herewith for Shafting London 4.1.39 Receivers Separate Tanks
SPARE GEAR as per Rule

The foregoing is a correct description,
E. Møller Manufacturer.



002536-002542-0217

Dates of Survey while building
 During progress of work in shops - - 1939: 10/10 - 14/11 - 5/12 1940: 9/2
 During erection on board vessel - - - 1944: 26/4 - 27/4 - 8/5 - 24/5 - 10/6 - 20/11 1945 2/7 - 3/7 - 4/7
 Total No. of visits 13

Dates of Examination of principal parts—Cylinders 9/2.40 Covers 9/2.40 Pistons 9/2.40 Piston rods ✓
 Connecting rods 10/10 - 14/11 - 8/12 1939. Crank and Flywheel shafts 9/2.40 Intermediate shafts ✓

Crank shaft { Material Siemens Martin Ingot Steel Tensile strength 31.2 Tons per sq. in.
 Elongation 34% Identification Marks Lloyd's No 14604 4 9.2.40.

Flywheel shaft, Material Identification Marks ✓

Is this machinery duplicate of a previous case yes Identification Marks

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case yes If so, state name of vessel Marine Mark, Odene Yard No 88.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This engine has been constructed under Special Survey in accordance with the Rules and the approved plan of the crank shaft. The material used has been tested as required by the Rules and the workmanship is good.
 On completion of the installation, the engine was tested under working conditions and found satisfactory

Im. 11, 42—T. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 175.00 When applied for 1/8 19 45
 Travelling Expenses (if any) £ 30.40 When received 19

FRI. 1 MAR 1946

Committee's Minute
 Assigned See minute on file rpk

W. A. S. ...
 Surveyor to Lloyd's Register of Shipping
 Lloyd's Register Foundation