

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11756

4c.

of writing Report 1st August 1945 When handed in at Local Office 19 Port of Copenhagen
 in Survey held at Halundborg & Odense Date, First Survey 14th November 1939 Last Survey 8th July 1945
 Book. Number of Visits 19

on the Single Motor KATRINE MÆRSK Tons Gross 10043.07
Triple Screw vessel Net 6096.87
Quadruple

at Odense By whom built Odense Maskfabriksværft 7/5 Yard No. 88 When built 1940
Dampskibsselskabet af 1912 7/5 - 7/5 Dampskibsselskabet "Scandinavia" Port belonging to Fredensborg

Engines made at Halundborg By whom made Maskfabriken BUKH ENGINE 4731 When made 1940
 erators made at Odense By whom made Thomas B. Thøgersen GENERATOR 234674 When made 1940

of Sets 1 Engine Brake Horse Power 30/36 Nom. Horse Power as per Rule 11 Total Capacity of Generators 18 Kilowatts.

L ENGINES, &c.—Type of Engines Heavy oil engine, trunk piston, solid injected 2 or 4 stroke cycle 4 Single or double acting single
 cum pressure in cylinders 49 kg/cm² Diameter of cylinders 135 3/4 Length of stroke 180 3/4 No. of cylinders 4 No. of cranks 4

n of bearings, adjacent to the Crank, measured from inner edge to inner edge 138 3/4 Is there a bearing between each crank yes
 olutions per minute 600 Flywheel dia. 675 3/4 Weight 264 kg Means of ignition compression Kind of fuel used heavy oil

nk Shaft, dia. of journals 71.5 3/4 as per Rule 95 3/4 as fitted 85 3/4 Crank pin dia. 85 3/4 Crank Webs 135 3/4 Mid. length breadth 37 3/4 shrunk
 as fitted 37 3/4 Mid. length thickness 37 3/4 Thickness parallel to axis ✓
 Thickness round eyehole ✓

wheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 15 3/4
 as fitted ✓ as fitted ✓

governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced
 the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled

ling Water Pumps, No. 1 800 ltr./hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
 ricating Oil Pumps, No. and size 1 400 ltr./hour

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

R RECEIVERS:—Have they been made under Survey ✓ State No. of Report or Certificate ✓
 ach receiver, which can be isolated, fitted with a safety valve as per Rule ✓

the internal surfaces of the receivers be examined ✓ What means are provided for cleaning their inner surfaces ✓
 here a drain arrangement fitted at the lowest part of each receiver ✓

h Pressure Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓
 nless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓

ting Air Receivers, No. ✓ Total cubic capacity ✓ Internal diameter ✓ thickness ✓
 nless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓

ELECTRIC GENERATORS:—Type Dyn. prof. ventilated
 isure of supply 110 volts. Full Load Current 164 Amperes. Direct or Alternating Current direct current

ternating current system, state the periodicity ✓ Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 nd off yes Generators, are they compounded as per Rule yes is an adjustable regulating resistance fitted in series with each shunt field yes

all terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced
 ielded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

ie 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
 ie generators are 100 kw. or over have they been built and tested under survey ✓

ANS.—Are approved plans forwarded herewith for Shafting London 4-1-39 Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)
 IRE GEAR as per Rule ✓

The foregoing is a correct description,

MOTORFABRIKEN BUKH 7/5

C. Thøgersen

Manufacturer.



© 2020

Lloyd's Register Foundation

003092-003099-0136

Dates of Survey while building { During progress of work in shops - - 1939: 20/9 - 27/9 - 10/10 - 14/11 - 8/12 1940: 4/6.
During erection on board vessel - - 1943: 4/8 - 26/8 - 22/9 - 2/11 - 17/11 1944: 2/2 - 10/3 1945: 3/7 - 4/7 - 5/7 - 6/7 - 7/7 - 8/7
Total No. of visits 19.

Dates of Examination of principal parts—Cylinders 4/6. 1940 Covers 4/6. 1940 Pistons 4/6. 1940 Piston rods.

Connecting rods 10/10 - 14/11 - 8/12 1939. Crank and Flywheel shafts 20/9 - 27/9 - 1939 - 4/6. 1940 Intermediate shafts.

Crank shaft { Material Premium Martin Ingot Steel. Tensile strength 62.2 kg/cm²
Elongation 29%. Identification Marks Lloyd's No 5052 44.6.4

Flywheel shaft, Material. Identification Marks.

Is this machinery duplicate of a previous case. Identification Marks.

Identification marks on Air Receivers.

Is this machinery duplicate of a previous case. *yes* If so, state name of vessel. *1/2 Caroline Mark, Oance 83.*

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.*

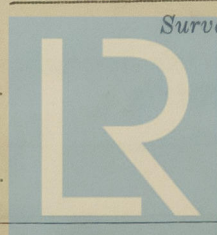
The amount of Fee ... *175.00* When applied for *8/9* 1941
Travelling Expenses (if any) *32.00* When received *3/10* 1941

Committee's Minute

Assigned

FRI. 11 JAN 1946

see minute on H. Rpt.



Lloyd's Register Foundation