

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11761

Received at London Office

25 AUG 1945

Date of writing Report

4<sup>th</sup> August 45

When handed in at Local Office

19

Port of

Copenhagen

No. in  
Reg. Book.

Survey held at

Copenhagen &amp; Odense

Date, First Survey

24<sup>th</sup> September 1938

Last Survey

22<sup>nd</sup> July 1945

Number of Visits

34

Single  
on the  
Triple  
Quadruple

4070R

Screw vessel

SALLY MERSH

Tons

Gross 5170.22

Net 3056.01

Built at

Odense

By whom built

Odense Maskinbyggeri

Yard No.

92

When built

-

Owners

Dampskibsselskabet af 1912

Port belonging to

Copenhagen

Oil Engines made at

Copenhagen

By whom made

Maskin- &amp; Skibsbyggeri

ENGINE 3390-3391

Contract No. 3392

When made

1941

Generators made at

Copenhagen

By whom made

A/S T. L. L.

GENERATOR 96657

Contract No. 96658

When made

1943

No. of Sets

3

Engine Brake Horse Power

165

Nom. Horse Power as per Rule

Total Capacity of Generators

330

Kilowatts.

OIL ENGINES, &amp;c.—Type of Engines Heavy oil engine, trunk piston, solid inject, 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 49 kg/cm<sup>2</sup> Diameter of cylinders 220 3/4 Length of stroke 370 3/4 No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 280 3/4 Is there a bearing between each crank yes

Revolutions per minute 365 Flywheel dia 1200 3/4 Weight 1550 kg Means of ignition Compression Kind of fuel used F.P. heavy oil

Crank Shaft, dia. of journals as per Rule 130 3/4 as fitted 150 3/4 Crank pin dia 150 3/4 Crank Webs Mid. length breadth 245 3/4 Thickness parallel to axis 85 3/4

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 18 3/4

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 lagged

Cooling Water Pumps, No. 24 500 ltr/min each 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 4.55 tons/hour for each engine, gear wheel type

Air Compressors, No. No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. One off for each engine Diameter rotary Stroke 20 3/4/min Driven by the engine

AIR RECEIVERS:—Have they been made under Survey yes State No. of Report or Certificate 888

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 covers

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

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

EMERGENCY Starting Air Receivers, No. 1 Total cubic capacity 200 ltr Internal diameter 380 3/4 thickness 11 3/4

Seamless, lap welded or riveted longitudinal joint lap welded Material S.M. Steel Range of tensile strength 40.1 kg/cm<sup>2</sup> Working pressure by Rules 33.8 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type drip proof ventilated

Pressure of supply 220 volts Full Load Current 500 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 and do the results comply with the requirements

If the generators are 100 kw. or over have they been built and tested under survey yes

PLANS.—Are approved plans forwarded herewith for Shafting yes Receivers Separate Tanks

SPARE GEAR As per Rule (If not, state date of approval)

The foregoing is a correct description,

AKTIESELSKABET

BURMEISTER &amp; WAIN'S MASKIN- OG SKIBSBYGGERI

Manufacturer.



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Lloyd's Register  
Foundation

002762-002769-0131



Dates of Survey while building  
During progress of work in shops - - 1938: 24/9, 29/9, 30/10, 1940: 26/13, 18/5, 23/8, 30/9, 15/10, 29/10, 29/11, 9/12, 1941: 14/1, 15/1, 21/2, 6/3  
During erection on board vessel - - 1943: 7/4, 15/5, 28/5, 27/6, 4/8, 26/8, 22/9, 20/10, 1/11, 30/11, 1944: 8/1, 2/2, 10/3, 1945: 7/7, 19/7, 20/7, 21/7  
Total No. of visits 34.

Dates of Examination of principal parts—Cylinders 14/15/21/2-41 Covers 14/15/21/2-41 Pistons 6/3-41 Piston rods ✓

Connecting rods 24/9, 29/9, 30/10-38 26/13, 18/5-40 Crank and Flywheel shafts 23/8, 30/9, 15/10, 29/10, 29/11-40 Intermediate shafts ✓

Crank shaft { Material Siemens Martin Ingot Steel Tensile strength 33.4-31.8 Tens per sq. in.  
Elongation 34.4 % & 36.4 % Identification Marks Lloyd's No 5470-5471 CH 29.11.40

Flywheel shaft, Material Identification Marks ✓

Is this machinery duplicate of a previous case Identification Marks ✓

Identification marks on Air Receivers No 888 Lloyd's Feb 60 atm WP 28 atm CH 9.12.40.

Is this machinery duplicate of a previous case yes. If so, state name of vessel Oceanic Yard No 90 1/2 Horse Mark.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These generator sets have been constructed and installed under special survey in accordance with the Rules and the approved plans. The material has been tested as required by the Rules and the workmanship is good. The generator sets have been tested under working conditions and found good.

The amount of Fee ... £ ✓ : When applied for 19

Travelling Expenses (if any) £ : When received 19

Committee's Minute

Assigned see minute on 28 Apr.

FRI. 11 JAN 1946

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

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