

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16429

Received at London Office JAN 13 1938

Date of writing Report 10 Jan. 1938. When handed in at Local Office 19 Port of Copenhagen.

No. in Survey held at Copenhagen & Odense Date, First Survey 14 Dec. 1936 Last Survey 9 Dec. 1937.

Reg. Book. Number of Visits 32

on the ^{Single} Twin ^{Triple} Screw vessel M.V. NOORDAM Tons { Gross _____ Net _____

Built at Rotterdam By whom built P. Smits jr. Yard No. 515 When built _____

Owners Holland-America Line. Port belonging to _____

Oil Engines made at Copenhagen By whom made Burmeister & Wain Contract No. 2847-48-49-50 When made 1937.

Generators made at Odense By whom made Thomas B. Thriize Contract No. 229835-36-37-38. When made 1937.

No. of Sets 4. Engine Brake Horse Power 4 x 360. Nom. Horse Power as per Rule _____ Total Capacity of Generators 960 Kilowatts.

OIL ENGINES, &c.—Type of Engines Diesel, trunk piston, gas infed. 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 49 kg/cm² Diameter of cylinders 220 mm Length of stroke 370 mm No. of cylinders 6. No. of cranks 6. ✓

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 294. ✓ Is there a bearing between each crank yes. ✓

Revolutions per minute 400. ✓ Flywheel dia. 980 mm. Weight 1310 kg. Means of ignition compression Kind of fuel used Diesel oil.

Crank Shaft, dia. of journals as per Rule 138 mm as fitted 180 mm Crank pin dia. 180 mm Crank Webs Mid. length breadth 280 mm Thickness parallel to axis 102 mm

Flywheel Shaft, diameter as per Rule 138 mm as fitted 180 mm Intermediate Shafts, diameter as per Rule ✓ as fitted ✓ Thickness of cylinder liners 18 mm.

Is a governor or other arrangement fitted to prevent racing of the engine when decelerated 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. Independent pumps Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

Lubricating Oil Pumps, No. and size 1 off 9.2 Tons/min, gearwheel type, on each engine.

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

Scavenging Air ^{BLOWERS} Pumps, No. 1 off rotary Diameter 42.1 mm/min Stroke on each engine Driven by chain from crank shaft.

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 _____ Internal diameter _____ thickness _____

Seamless, lap welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure by Rules _____

ELECTRIC GENERATORS:—Type

Pressure of supply 220 volts. Load 1090 Amperes. Direct or Alternating Current direct. ✓

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 yes. ✓

Generators, do they comply with the requirements regarding rating yes. ✓ are they compound wound yes. ✓

are they over compounded 5 per cent. yes. ✓, if not compound wound state distance between each generator _____

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. ✓

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

SPARE GEAR as per Rules. ✓

The foregoing is a correct description,

AKTIESELSKABET
BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI

Manufacturer.



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Lloyd's Register
Foundation

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14/2 1936 - 28/6 - 5/7 - 20/7 - 9/8 - 14/9 - 15/9 - 20/9 - 29/9 - 12/10 - 26/10 - 29/10 - 2/11 - 3/11
Dates of Survey while building { During progress of work in shops - - 9/11 - 10/11 - 11/11 - 15/11 - 16/11 - 17/11 - 18/11 - 22/11 - 23/11 - 24/11 - 25/11 - 27/11 - 29/11 - 30/11 - 4/12 - 7/12 - 9/12 1937.
During erection on board vessel - - -
Total No. of visits 32.

Dates of Examination of principal parts—Cylinders with Covers 29/10-9/11-27/11-24/11-9/12 Pistons 29/10-9/11-27/11-24/11-9/12 Piston rods ✓

Connecting rods 14/2 1936-29/7-12/10-23/11-27/11-29/11-37 Crank and Flywheel shafts 22/6-5/7-14/9-20/9-29/9-26/10-5/11-22/11-37 Intermediate shaft ✓

Crank and Flywheel shafts, Material S. M. F. Steel Identification Mark { Lloyd's no 3891-92 C.K. 26.10.37.
Lloyd's no 3917 C.V. 15.11.37.
Lloyd's no 3922 C.V. 22.11.37.

Intermediate shafts, Material ✓ Identification Marks -

Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engines and generators have been constructed under special survey and in accordance with the Society's Rules, the approved plans and the requirements contained in the Secretary's letter E, dated 8th June 1937.

The material has been tested and examined as required by the Rules and found satisfactory, the workmanship is of good description throughout.

On completion the engines and generators were tested under full power working condition and found satisfactory.

4th.

The amount of Fee ... £1540.00 When applied for, 11.1.1938
Travelling Expenses (if any) £ : : When received, 23.3.1938

Arthur H. Hesterley.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 18 OCT 1938
Assigned See minute H.C. Machinery.