

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS,

No. 10240

JUN 11 1937

Date of writing Report 3rd June 1937 When handed in at Local Office 19 Port of Copenhagen. Received at London Office

No. in Survey held at Copenhagen and Narskov Date, First Survey 12th June 1936 Last Survey 17th May 1937 Reg. Book. Number of Visits 33.

on the Single Screw vessel "NORDEN"
Triple
Quadruple

Tons { Gross 4700.23.
Net 2778.11.

Built at Narskov By whom built O/S. Narskov Skibsvaerk Yard No. 78 When built 1937-5 mo.

Owners O/S. Sjømandsselskabet Norden Port belonging to Copenhagen

Oil Engines made at Copenhagen By whom made O/S. Burmeister & Wain Engine No. 2616-17 When made 1937.

Generators made at Odense By whom made Thomas B. Thrige Generator No. 227956. When made 1937.

No. of Sets 3. Engine Brake Horse Power 3x/120 Nom. Horse Power as per Rule ✓ Total Capacity of Generators 80 Kilowatts mech.

IL ENGINES, &c.—Type of Engines Steel, trunk piston, side inlet. 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 2. No. of cranks 2.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 276 mm. Is there a bearing between each crank Yes.

Revolutions per minute 400. Flywheel dia. 1200 mm Weight 1550 kg. Means of ignition Compression Kind of fuel used crude oil

Crank Shaft, dia. of journals as per Rule 122 mm as fitted 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 290 mm Mid. length thickness 85 mm Thickness parallel to axis 85 mm Thickness around eyehole 67.5 mm

Flywheel Shaft, diameter as per Rule ✓ as fitted ✓ 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 declutched Yes Means of lubrication force

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 off Continuously 2070 hour driven by elec. motor Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes.

Lubricating Oil Pumps, No. and size 1x3 direct coupled gearwheel pumps. Capacity 5.5 m³ per hour.

Air Compressors, No. None No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

Scavenging Air Pumps, No. 1x3 Blowers Polary Capacity 15.5 m³/min. Diameter 15.5 mm Stroke ✓ Driven by chain from shaft.

IR RECEIVERS:—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 ✓

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 100 litres. Internal diameter 336 mm thickness 10 mm

Seamless, lap welded or riveted longitudinal joint lap welded Material Steel Range of tensile strength 77.4 Ton/2" Working pressure by Rules 36.6 kg/cm²

ELECTRIC GENERATORS:—Type rip proof, ventilated.

Pressure of supply 220 volts. Load 364. 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 ✓ Receivers ✓ Separate Tanks ✓

SPARE GEAR supplied as per Rules.

AKTIESELSKABET
BURMEISTER & WAIN'S MASKIN- OG SKIBBYGGERI
N. Henningsen

Manufacturer.



Dates of Survey while building
 During progress of work in shops - - 12/6 - 22/8 - 19/9 - 23/9 - 7/10 - 17/10 - 21/10 - 22/10 - 26/10 - 27/10 - 29/10 - 31/10 - 11/11 - 16/11 - 24/11 - 3/12 - 14/12 - 19/12 - 21/12 - 23/12 - 29/12 - 31/12 - 36 - 7
 During erection on board vessel - - - 19/3 - 7/4 - 8/4 - 14/4 - 20/4 - 28/4 - 5/5 - 11/5 - 19/5 - 22/5 1937.
 Total No. of visits 33.

Dates of Examination of principal parts—Cylinders with Covers 29/10 - 31/10 - 24/11 - 14/12 - 36 pistons 8/12 - 23/12 - 36. 4/1.37 Piston rods ✓

Connecting rods 4/10 - 17/10 - 12/12 - 35 - 9/1 - 2/1 - 13/6 - 36 Crank and Flywheel shaft 22/8 - 19/9 - 23/9 - 17/10 - 27/10 - 4/12 - 2/12 - 36 Intermediate shaft ✓

Crank and Flywheel shafts, Material S.M. Steel. Identification Mark { 60441 No 3375 C.V. 17.10.36
 60441 No 3376 C.V. 17.10.36
 60441 No 3459 C.V. 21.12.36

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. These generator sets have been built under special survey and in accordance with the Rules. The quality of workmanship is good. The generator sets were tested under full load, working condition, in the shop as well as on board the vessel, and found satisfactory. A.T.H.

Im.6.31—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee £	:	:	When applied for,
			19.....
Travelling Expenses (if any) £	:	:	When received,
			19.....

A.T.H. Verberg
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned See Cpu J.E. 10240

FRI 18 JUN 1937



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