

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10409

Received at London Office

DEC 11 1937

Date of writing Report 29/11 1937 When handed in at Local Office Copenhagen. Port of Copenhagen.
Date, First Survey 10/10 1936. Last Survey 19 November 1937.
Number of Visits 25

on the ARGUS. Screw vessel ARGUS. Tons { Gross 9512. Net 5874.

built at Copenhagen By whom built A/S. Burmeister & Wain Yard No. 628 When built 1937
owners Nephtun Shipping Co. Ltd. Port belonging to Panama City

Engines made at Copenhagen By whom made Burmeister & Wain Engine Contract No. 7650-51 When made 1937.
Generators made at Odense By whom made Thomas B. Thrice Engine Contract No. 228966-67 When made 1937.

no. of Sets 2 Engine Brake Horse Power 2x/20 Nom. Horse Power as per Rule Total Capacity of Generators 160 Kilowatts.

ENGINES, &c. Type of Engines Direct, trunk type, solid injection 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.

Distance between bearings, adjacent to the Crank, measured from inner edge to inner edge 277 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 diesel oil.

Crank Shaft, dia. of journals as per Rule 124 mm as fitted 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 240 mm Thickness parallel to axis 85 mm
as fitted 150 mm Crank pin dia. 75 mm central hole Mid. length thickness 85 mm shrunk Thickness around eyehole 67.5 mm

Flywheel Shaft, diameter as per Rule 124 mm as fitted 150 mm Intermediate Shafts, diameter as per Rule 124 mm as fitted 150 mm 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 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. One, independent centrifugal Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes.

Lubricating Oil Pumps, No. and size (2) one on each engine, gearwheel type, 5.5 Tons/hour.

Air Compressors, No. (2) 1 on each engine No. of stages 2 Diameters 1st = 280 mm, 2nd = 250 mm Stroke 190 mm Driven by Engine direct.

Scavenging Air Pumps, No. (2) one on each engine Diameter Rotary Capacity 15.5 m³/min. Driven by chain from shaft

AIR 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 covers fitted.

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

High Pressure Air Receivers, No. 1 Cubic capacity of each 100 litres Internal diameter 386 mm thickness 10 mm.

Seamless, lap welded or riveted longitudinal joint lap welded Material S.M. Steel Range of tensile strength 43.1 kg/mm² Working pressure by Rules 36.6 kg/mm²

Starting Air Receivers, No. One Total cubic capacity 100 litres Internal diameter 386 mm thickness 10 mm.

Seamless, lap welded or riveted longitudinal joint lap welded Material S.M. Steel Range of tensile strength 43.1 kg/mm² Working pressure by Rules 36.6 kg/mm²

ELECTRIC GENERATORS:—Type rip proof, ventilated.
Pressure of supply 220 volts. Load 364 Amps. Amperes. Direct or Alternating Current Direct.

If alternating current system, state frequency of periods per second 50

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 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.

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

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The foregoing is a correct description,
BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI
A. Hornum

Manufacturer.



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Foundation

009682-009688-00976

Dates of Survey while building
 During progress of work in shops - 19/10 - 24/10 - 3/11 - 16/11 - 4/12 - 30/12/1936 - 30/1 - 11/2 - 16/2 - 9/3 - 27/4 - 7/5 - 12/5 - 27/5 - 19/6 - 9/7 - 24/7/1937.
 During erection on board vessel - 14/10 - 22/10 - 30/10 - 7/11 - 8/11 - 12/11 - 14/11 - 19/11/1937.
 Total No. of visits 25.

Dates of Examination of principal parts—Cylinders with Covers 19/6 - 24/9/1937 Pistons 24/7/1937 Piston rods ✓

Connecting rods 10/10 - 24/10/1936 - 14/2/1937. Crank and Flywheel shaft 3/11 - 14/11 - 4/12/1936 - 27/5/1937. Intermediate shaft ✓

Crank and Flywheel shafts, Material S. M. S. Steel Identification Mark Glasgow No 3676 C.V. 27.5.37.

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.S. ACTOR. B&W's Yard No 627.

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

The above engines have been constructed under special survey and in accordance with the Society's Rules and the approved plan of crankshafts. The material has been tested and examined as per Rules and found satisfactory.

The workmanship is of a good description throughout. On completion and when installed the engines with generators were tested under full power working condition and found satisfactory.

Im. 631 - 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. M. Webster
 Surveyor to Lloyd's Register of Shipping
J. Langhorne

Committee's Minute FRI, 17 DEC 1937

Assigned See Opn. J.E. 10407

