

# Report on Oil Engine Electric Generator Sets.

No. 11475

Received at London Office 25 AUG 1945

Date of writing Report 10<sup>th</sup> July 42 When handed in at Local Office Copenhagen Port of Copenhagen  
No. in Survey held at Copenhagen Date, First Survey 8<sup>th</sup> January 1941 Last Survey 13<sup>th</sup> May 1942  
Reg. Book. Number of Visits 33

Single on the Twin Screw vessel. Tons Gross 47715 Net 4730

Built at Copenhagen By whom built A.P. Burmeister & Wain's Maskin- og Skibsbyggeri Yard No. 653 When built 1942

Oil Engines made at Copenhagen By whom made A.P. Burmeister & Wain's Maskin- og Skibsbyggeri Contract No. 3100-1-2 When made 1942

Generators made at Odense By whom made Thomas B. Thrigge Contract No. 235432-3-4 When made 1942

No. of Sets 3 Engine Brake Horse Power 3 x 180 Nom. Horse Power as per Rule Total Capacity of Generators 360 Kilowatts.

OIL ENGINES &c.— Type of Engines Vertical Diesel, Trunk piston, Solid injection or 4 stroke cycle 2 Single or double acting single  
Maximum pressure in cylinders 49 kg/cm<sup>2</sup> Diameter of cylinders 220 mm Length of stroke 370 mm No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 280 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 130 mm as fitted 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 245 mm Thickness parallel to axis 8.5 mm  
Flywheel Shaft, diameter as per Rule Intermediate Shaft, diameter as per Rule 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 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 4.5 t.p.m. for each  
Air Compressors, No. 1 of each engine No. of stages 2 Diameters 280 mm (280-250) mm Stroke 190 Driven by the engine

Scavenging Air Pumps, No. 1 of each engine Diameter 22.5 mm Stroke Driven by the engine

AIR RECEIVERS:— Have they been made under Survey. See main engine report. State No. of Report or Certificate.

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.

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 Drip proof ventilated  
Pressure of supply 220 volts Full Load Current 545 Amperes Direct or Alternating Current direct

If alternating current system, state the periodicity. Has the Automatic Governor been tested and found efficient when the whole 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 Rules

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



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015338-015347-0273

Dates of Survey while building  
 During progress of work in shops - 8/1, 23/1, 24/2, 25/2, 29/2, 25/3, 5/4, 9/4, 17/4, 24/4, 29/4, 30/4, 2/5, 7/5, 12/5, 4/6, 14/6, 4/7, 26/7, 1941  
 During erection on board vessel - 18/9, 30/9, 15/10, 24/10, 20/11, 10/12, 23/12, 1941, 9/1, 27/1, 12/2, 27/3, 25/4, 11/5, 13/5, 1942  
 Total No. of visits 33.

Dates of Examination of principal parts—Cylinders *and* Covers 3/4-17/4-41 Pistons 3/4-41 Piston rods.....

Connecting rods 8/1-23/1-25/2-41 Crank and Flywheel shafts 25/2-29/2-9/4-41 Intermediate shafts.....

Crank and Flywheel shafts, Material *S.M. Steel* Identification Marks *LLOYD'S NO 5532 & 9.4.41*

Intermediate shafts, Material..... Identification Marks.....

Identification marks on Air Receivers *EMERGENCY STARTING - NO 896 LLOYD'S TEST 60 ATM WP28 ATM & 15.1.42*

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *B.W. Yacht Club 648 L 652*

General Remarks (State quality of workmanship, opinions as to class, &c. *The above 3 generating sets have been constructed and fitted under special survey in accordance with the Rules, the approved plans and the requirements contained in the Secretary's letters.*

*The material used in construction has been tested as required by the Rules and the workmanship is good.*

The Surveyor are requested not to write on or below the space for Committee Minutes.

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

*J. Langhorne Jones*  
 Surveyor to Lloyd's Register of Shipping.

FRI. 11 JAN 1946

FRI. 25 OCT 1945

Committee's Minute

Assigned

*Deferred*

*See Minute on Rpt. 46*



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