

## 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 1942  
 Reg. Book. Number of Visits 33

Single  
 on the Twin Screw vessel. Tons Gross 47715  
Triple  
Quadruple  
 Built at Copenhagen By whom built Apt. Burmeister & Wain's Maskin- og Skibsbyggeri Yard No. 653 When built 1942

Owners..... Port belonging to.....  
 Oil Engines made at Copenhagen By whom made Apt. Burmeister & Wain's Maskin- og Skibsbyggeri Contract No. 3100-1-2 When made 1942  
 Generators made at Osaka By whom made Thomas B. Thrigg 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 Diesels, 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 Crude oil  
 Crank Shaft, dia. of journals as per Rule 130 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 245 mm Thickness parallel to axis 85 mm  
 as fitted 150 mm 75 mm Mid. length thickness 85 mm Thickness around eye hole 67.5 mm  
 Flywheel Shaft, diameter as per Rule..... Intermediate Shaft, diameter as per Rule..... Thickness of cylinder liners 18 mm  
 as fitted..... as fitted.....

Is a governor or other arrangement fitted to prevent racing of the engine when disconnected 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 l/h. for each  
 Air Compressors, No. 1 off each engine No. of stages 2 Diameters 280 mm (280-280) mm Stroke 190 Driven by the engine  
 Scavenging Air Pumps, No. 1 off 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.....

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 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.....

(If not, state date of approval.....)

SPARE GEAR as per Rules

The foregoing is a correct description,

AKTIESELSKABET

BURMEISTER & WAIN MASKIN- OG SKIBSBYGERI

A. H. H. H. H.

Manufacturer.



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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 WP 28 ATM & 15.1.42

Is this machinery duplicate of a previous case yes If so, state name of vessel B.W. YACHTER 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 amount of Fee £ :

When applied for, 19

Travelling Expenses (if any) £ :

When received, 19

Fr. Langhorne Jones  
Surveyor to Lloyd's Register of Shipping.

FRI. 11 JAN 1946

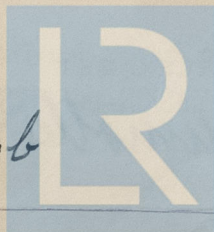
FRI. 25 OCT 1945

Committee's Minute

Assigned

Deferred

See Minute on Rpt. 46



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