

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12106

NOV 25 1938

Received at London Office

18th November 1938

23rd November 1938

Port of **GOTHENBURG**

Date, First Survey **2nd March** Last Survey **15th November 1938**

Number of Visits **23**

Single  
on the **Triple**  
Screw vessel

**M/S "GARD"**

Gross **8259.29**  
Net **4958.56**

**GOTHENBURG**

By whom built **ERIKSBERGS M.V. AKTIEB.** Yard No. **283** When built **1938**

**SKIBS A/S CORONA**

Port belonging to **HAUGESUND**

Engines made at **GOTHENBURG**

By whom made **ERIKSBERGS M.V. AKTIEB.** ENGINE Contract No. **206** When made **1938**

Generators made at **VÄSTERÅS**

By whom made **ALLMÄNNA SVENSKA ELEKTR. AB.** GENERATOR Contract No. **993684** When made **1938**

Sets **1** Engine Brake Horse Power **140** Nom. Horse Power as per Rule **39.3** Total Capacity of Generators **100** Kilowatts.

ENGINES, &c.—Type of Engines **Diesel oil engine, solid injection** 2 or 4 stroke cycle **2** Single or double acting **Single**

Working 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**

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 **350** Flywheel dia. **1200 mm** Weight **1550 kg** Means of ignition **Diesel system** Kind of fuel used **Diesel oil**

Shaft, dia. of journals **150 mm** Crank pin dia. **150 mm** Crank Webs Mid. length breadth **245 mm** Thickness parallel to axis **85 mm**

Intermediate Shafts, diameter **150 mm** as fitted **150 mm** Crank Webs Mid. length thickness **85 mm** Thickness around eye-hole **67.5 mm**

Working pressure of hydraulic test **filled on the crank shaft** as per Rule **18 mm** Thickness of cylinder liners

Are drawn or other arrangement fitted to prevent racing of the engine when declutched **Yes** Means of lubrication **Forced**

Cylinders fitted with safety valves **Yes** Are the exhaust pipes and silencers water cooled or lagged with non-conducting material **Lagged**

Water Pumps, No. **250 lit/min, also comm.** Is the sea suction provided with an efficient strainer which can be cleared within the vessel **Yes**

Operating Oil Pumps, No. and size **One, 275 lit/hour, direct driven.**

Compressors, No. **One** No. of stages **Two** Diameters **250 & 280 mm** Stroke **190 mm** Driven by **Direct driven**

Blowing Air Pumps, No. **One** Diameter **250 mm** Stroke **190 mm** Driven by **Direct driven**

RECEIVERS:—Have they been made under Survey **Yes** State No. of Report or Certificate **1**

Receiver, which can be isolated, fitted with a safety valve as per Rule **Yes**

Internal surfaces of the receivers be examined **Yes** What means are provided for cleaning their inner surfaces **Yes**

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

Pressure Air Receivers, No. **None** Cubic capacity of each **180 lit.** Internal diameter **370 mm** thickness **14 mm.**

lap welded or riveted longitudinal joint **lap welded** Material **Steel** Range of tensile strength **38.9-39.1 kg/mm<sup>2</sup>** Working pressure by Rules **40 kg/cm<sup>2</sup>**

Electric Generators, No. **One for both aux. engs** Total cubic capacity **180 lit.** Internal diameter **370 mm** thickness **14 mm.**

lap welded or riveted longitudinal joint **lap welded** Material **Steel** Range of tensile strength **38.9-39.1 kg/mm<sup>2</sup>** Working pressure by Rules **40 kg/cm<sup>2</sup>**

TRIC GENERATORS:—Type **Drip proof, DC, compound.**

Volts of supply **220** volts. Full Load Current **455** Amperes. Direct or Alternating Current **Direct current**

Operating current system, state the periodicity **Yes** 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 **Yes**

Are all terminals accessible, clearly marked, and furnished with sockets **Yes**

Are the lubricating arrangements of the generators as per Rule **Yes**

Generators are under 100 kw. full load rating, have the Makers supplied certificates of test **Yes** and do the results comply with the requirements **Yes**

Generators are 100 kw. or over have they been built and tested under survey **Yes**

S. Are approved plans forwarded herewith for Shafting **No, 21.12.36.** Receivers **No, 8.3.37; 10.12.36.** Separate Tanks **No, 10.12.37**

E GEAR as required by the Rules has been supplied.

The foregoing is a correct description,

**Eriksbergs Mek. Verkstads Aktiebolag**

Manufacturer.



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Dates of Survey while building	{	During progress of work in shops - -
		During erection on board vessel - - -
		Total No. of visits

Connecting rods 48.38. 15.3.38. Crank and Flywheel shafts 16.6.38 Intermediate shafts LLOYD'S 5379 HJ 4.11.37. 65 ✓

Crank and Flange shafts. Material S.M. Steel Identification Marks LLOYD'S 5399 HT 16.12.37 658

Intermediate shafts	Material	Identification Marks

Identification marks on Air Receiver: (RUX ENG) 1544

LLOYD'S TEST  
80 FTM  
400 FTM

WS. 14. 4. 38.

Is this machinery duplicate of a previous case Yes If so, state name of vessel U/S Tolar, Log. report no 1197

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

This auxiliary engine has been built under special survey and fitted on

under our inspection and has been tested and found satisfactory.

The workmanship is good and all the requirements of the Rules have been

complied with.

The forging report of the crank shaft is attached.

The amount of Fee ... .. £ ✓ : 19 .....

When applied for, Aswander. J. Asprelin

Travelling Expenses (if any) £ : : When received, *Surveyor to Lloyd's Register of Shipping.*

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Committee's Minute

See FF much all

Assigned *see the meeting*