

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12106

Received at London Office

NOV 25 1938

18th November 1938 When handed in at Local Office

22nd November 1938

Port of **GOTHENBURG**

Survey held at **GOTHENBURG**

Date, First Survey **2nd March**

Last Survey **15th November 1938**

Number of Visits **23**

on the **GOTHENBURG**
 Single Screw vessel
 Triple
 Quadruple

M/S "GARD"

Tons { Gross **8259.29**
 Net **4958.56**

GOTHENBURG
SKIBS A/S CORONA

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

Port belonging to **HAUGESUND**

Engines made at **GOTHENBURG**

By whom made **ERIKSBERGS M.V. AKTIEB** ENGINE Contract No. **207** When made **1938**

Generators made at **VÄSTERÅS**

By whom made **ALLMÄNNA SVENSKA ELEKTR. AB** GENERATOR Contract No. **993685** When made **1938**

Engines 1 Engine Brake Horse Power **125** Nom. Horse Power as per Rule **26.2** Total Capacity of Generator **82** Kilowatts.

11972 ENGINES, &c. Type of Engines **Diesel oil engine, solid injection** 2 or 4 stroke cycle **2** Single or double acting **Single**

Pressure in cylinders **49 kg/cm²** Diameter of cylinders **220 mm** Length of stroke **370 mm** No. of cylinders **2** No. of cranks **2**

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 **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**

as fitted **150 mm** as fitted **150 mm** Mid. length thickness **85 mm** Thickness around eye-hole **67.5 mm**

Intermediate Shafts, diameter as per Rule **18 mm** Thickness of cylinder liners **18 mm**

Is there any 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. **1 separate for aux. eng. & 2 for main cool pumps** Is the sea suction provided with an efficient strainer which can be cleared within the vessel **Yes**

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 **150 mm** Stroke **150 mm** Driven by **Direct driven**

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

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 **✓**

Drain arrangement fitted at the lowest part of each receiver **Yes**

Pressure Air Receivers, No. **None** Cubic capacity of each **✓** Internal diameter **✓** thickness **✓**

Lap welded or riveted longitudinal joint **✓** Material **✓** Range of tensile strength **✓** Working pressure by Rules **✓**

Air Receivers, No. **One for both aux. eng. & 2 for main cool pumps** 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 **38.9-39.2 kg/mm²** Working pressure by Rules **40 kg/cm²**

ELECTRIC GENERATORS: Type **Drip proof, DC, compound.**

Voltage of supply **220** volts. Full Load Current **373** Amperes. Direct or Alternating Current **Direct current**

Regulating 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 there 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 **✓**

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**

Is the GEAR as required by the Rules has been supplied. **✓**

The foregoing is a correct description,

Eriksbergs Mäk. Værkstads Aktiebolag

Manufacturer.



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Lloyd's Register Foundation

003065-003074-0037

Dates of Survey while building
 During progress of work in shops - - - March 2.3.15. April 28. May 23. June 16.30. July 5. Aug. 4. Sept. 1.2.24. Oct. 19.20.
 During erection on board vessel - - - Sept. 26. Oct. 5.13.19. Nov. 2.11.12.14.15.
 Total No. of visits 23

Dates of Examination of principal parts—Cylinders 23.5.38. Covers 23.5.38. Pistons 23.5.38. Piston rods ✓

Connecting rods 4.8.38. Crank and Flywheel shafts 16.6.38. Intermediate shafts ✓
 Identification Marks LLOYD'S 5379 HT 4.11.37. 6515 (3 cyl)
 LLOYD'S 5399 HT 16.12.37. 6582 (2 cyl)

Crank and Flywheel shafts, Material S.M. steel. Identification Marks ✓
 Intermediate shafts, Material ✓. Identification Marks ✓

Identification marks on Air Receiver (AUX ENG)
 1544
 LLOYD'S TEST
 80 ATM
 W/P 40 ATM
 VS 14.4.38

Is this machinery duplicate of a previous case Yes If so, state name of vessel m/s Lolar, Got. report no 11972.

General Remarks (State quality of workmanship, opinions as to class, &c.)
 This auxiliary engine has been built under special survey and fitted on board 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 crankshaft is attached.

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

G. Mander & Angellin
 Surveyor to Lloyd's Register of Shipping.

TUE 29 NOV 1938

Committee's Minute
 Assigned See FE machy rpb



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