

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**

Survey held at **GOTHENBURG**

Date, First Survey **2nd March**

Last Survey **15th November 1938**

Number of Visits **23**

Single
Triple
Quadruple

Screw vessel

M/S "GARD"

Gross **8859.29**
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 **ALLMÄNNNA SVENSKA ELEKTR. AB.** GENERATOR Contract No. **993684** When made **1938**

of rivet holes

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/cm²** 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 **as per Rule** Thickness of cylinder liners **18 mm**

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material **Lagged**

Water Pumps, No. **1 separate for each engine** Is the sea suction provided with an efficient strainer which can be cleared within the vessel **Yes**

Lubricating 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 **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**

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 **38.9-39.2 kg/mm²** Working pressure by Rules **40 kg/cm²**

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

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

Regulating 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 there an adjustable regulating resistance fitted in series with each generator **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**

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. **Yes**

The foregoing is a correct description,

Eriksbergs Mek. Verkstads Aktiebolag

Manufacturer.



© 2021

Lloyd's Register Foundation

003065-003074-0036

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 15.3.38 Crank and Flywheel shafts 16.6.38 Intermediate shafts LLOYD'S 5379 HJ 4.11.37. 65

Crank and Flywheel shafts, Material S.M. steel Identification Marks LLOYD'S 5399 HJ 16.12.37. 658

Intermediate shafts, Material Identification Marks

Identification marks on Air Receiver (RAW ENG)

1544
 LLOYD'S TEST
 80 ATM
 WP 40 ATM
 VS. 14.4.38.

Is this machinery duplicate of a previous case Yes If so, state name of vessel 1/2 Solör, 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 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.

100.5.37.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)

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

TUE 29 NOV 1938

Committee's Minute Assigned See Ft machy of

J. Aspelin
 Surveyor to Lloyd's Register of Shipping.



© 2021 Lloyd's Register Foundation