

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12106

Received at London Office

NOV 25 1938

Survey Report 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 ^{Single} ~~Triple~~ ~~Quadruple~~ Screw vessel

M/S "GARD"

Tons { 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. 207 When made 1938

Generators made at VÄSTERÅS

By whom made ALLMÄNNÄ 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

on 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 as fitted 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 245 mm Thickness parallel to axis 85 mm

Intermediate Shafts, diameter as fitted 150 mm Mid. length thickness 85 mm Thickness around eyehole 67.5 mm

Shaft, diameter as fitted 150 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. 2 Separate for aux. eng. & also connected to 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. Stroke 190 mm Driven by Direct driven

Compressors, No. One No. of stages Two Diameters 250 & 280 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. & 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. e of supply 220 volts. Full Load Current 373 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

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

GEAR as required by the Rules has been supplied.

The foregoing is a correct description,

Eriksbergs Msk. Vorkstads Aktiebolag

Manufacturer.



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003065-003074-003075

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 ✓

Crank and Flywheel shafts, Material L.M. steel Identification Marks LLOYD'S 5379 HT 4.11.37. 6515 (3cyl)
LLOYD'S 5399 HT 16.12.37. 6582 (2cyl)

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. Lohr, 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.

Rpt. 13.

Date of writing

No. in Reg. Book

88125

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

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

G. Mander & A. Agelin
Surveyors to Lloyd's Register of Shipping.

TUE 29 NOV 1938

Committee's Minute

Assigned

See F.E. Mackay, etc.



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