

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 12218
FEB 11 1939

Date of writing Report 3rd Febr. 1939 When handed in at Local Office 9th Febr. 1939 Port of Gothenburg
Received at London Office

No. in Survey held at Gothenburg Date, First Survey 24th October Last Survey 31st January 1939
Reg. Book. 90232 IN SUPPL. on the Single Screw vessel M/S "TRONDHEIM" Number of Visits 27

Built at Gothenburg By whom built ERIKSBERGS M.V. AKTIEB. Yard No. 287 When built 1939
Owners A/S TANK Port belonging to OSLO
Oil Engines made at Gothenburg By whom made ERIKSBERGS M.V. AKTIEB. ENGINE Contract No. 221 When made 1939
Generator made at VÄSTERÅS By whom made ALLM.SVENSKA ELEKTRISKA AB GENERATOR Contract No. 998717 When made 1938

No. of Sets 1 Engine Brake Horse Power 140 Nom. Horse Power as per Rule 39.3 Total Capacity of Generators 100 Kilowatts.
Tons { Gross 8257.82
Net 4950.97

OIL ENGINES, &c.—Type of Engines Diesel oil engine, solid injection 2 or 4 stroke cycle 2 Single or double acting Single
Maximum pressure in cylinders 49 kg/cm² 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 276 mm Is there a bearing between each crank Yes
Revolutions per minute 350 Flywheel dia. 1200 mm Weight 1550 kg Means of ignition Compression Kind of fuel used Diesel oil
Crank Shaft, dia. of journals 150 mm. Crank pin dia. 150 mm. Crank Webs Mid. length breadth 240 mm Thickness parallel to axis 85 mm
as fitted 150 mm. Mid. length thickness 85 mm shrunk Thickness around eye-hole 67.5 mm.
Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted Thickness of cylinder liners 18 mm
Is a governor or other arrangement fitted to prevent racing of the engine when declutched 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. 1 separate for aux. engs. & 250 lit/min. also com. for main cool. pumps 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
Air Compressors No. One No. of stages Two Diameters 250 and 280 mm. Stroke 190 mm Driven by the aux. engine.
Scavenging Air Pumps, No. One Diameter — Stroke — Driven by —

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate —
Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces —
Is there a drain arrangement fitted at the lowest part of each receiver Yes
High Pressure Air Receivers, No. None 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. One for both aux. engs Total cubic capacity 180 litres. Internal diameter 370 mm. thickness 14 mm.
Seamless, lap welded or riveted longitudinal joint Lap welded Material Steel Range of tensile strength 40-42.5 kg/mm² Working pressure by Rules 40 kg/cm²

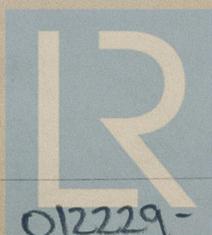
ELECTRIC GENERATORS:—Type Drip proof, DC, compound
Pressure of supply 220 volts. Full Load Current 455 Amperes. Direct or Alternating Current Direct current.
If alternating current system, state the periodicity — Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes
Generator, is it 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 No, 24.3.37 Receivers No, 28.6.37 Separate Tanks No, 31.5.38
(If not, state date of approval)

SPARE GEAR as required by the Rules has been supplied.

The foregoing is a correct description,
Eriksbergs Mek. Verkstads Aktiebolag
Boateröden

Manufacturer.



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Lloyd's Register
Foundation
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Dates of Survey while building
 During progress of work in shops - - } 1938 Oct. 24. 28. 29. 31. Nov. 4. 5. 7. 9. 10. 28 Dec. 1.
 During erection on board vessel - - - } 1938 Dec. 8. 12. 23. 1939 Jan. 13. 21. 25. 26. 28. 30. 31.
 Total No. of visits 21

*Dates of Examination of principal parts—Cylinders 24.10.38 Covers 24.10.38 Pistons 4.11.38 Piston rods ✓
 Connecting rods 4.11.38 Crank and Flywheel shafts 29.10.38 Intermediate shafts ✓

Crank and Flywheel shafts, Material *FM-steel* Identification Marks *GFL LLOYD'S 1542 FH 21.2.38.*

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers
Main (2 off) No 433 & 434 LLOYD'S TEST 40 Kg WP 25 Kg R 11.11.38 SA
Rec. No 1216 LLOYD'S TEST 80 ATM. WP 40 ATM. V.S. 6.12.37.

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *% Solor, Got. report 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 my inspection and has been tested and found satisfactory. The workmanship is good and all the Rules requirements have been complied with. The forging report of the crank shaft was forwarded with the Got. report no 12159 (First Entry report of Yard no 285, % Kaituma)

Im. 11.37.—Transfer. (MADE IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ *4* : :
 Travelling Expenses (if any) £ : :
 When applied for, 19.....
 When received, 19.....

L. Agrelim
 Surveyor Lloyd's Register of Shipping.

Committee's Minute
 Assigned *See FE. machy rpt.*
 FRI. 24 FEB 1939

