

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

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 eyehole 67.5 mm.
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted Thickness of cylinder liners 18 mm
 as fitted on crank shaft
 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. eng. & 250 lit/min. also conn. to 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 Blower 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)

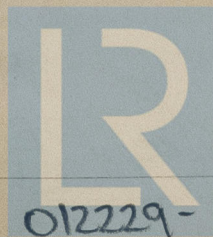
SPARE GEAR as required by the Rules has been supplied.

The foregoing is a correct description,

Eriksbergs Mek. Verkstads Aktiebolag

Boatwrights

Manufacturer.



© 2021

Lloyd's Register

012229-012235-0032

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 *PM-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* *Rec. No 1216*
LLOYD'S TEST 40 Kg *LLOYD'S TEST 80 ATM.*
WP 25 Kg *WP 40 ATM.*
R 11.11.38 SA *V.S. 6.12.37.*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *% Solör, 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)

The amount of Fee ... £ *4* :

Travelling Expenses (if any) £ :

When applied for,

19.....

When received,

19.....

L. Agelion

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 24 FEB 1939

See FE. machy rpt.



© 2021

Lloyd's Register
Foundation