

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 Screw vessel "M/S TRONDHEIM" Tons { Gross 8257.82 Net 4950.97

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. 220 When made 1939

Generator made at VÄSTERÅS By whom made ALLM. SVENSKA ELEKTRISKA AB GENERATOR Contract No. 998718 When made 1938

No. of Sets 1 Engine Brake Horse Power 125 Nom. Horse Power as per Rule 26.2 Total Capacity of Generators 82 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 2 No. of cranks 2

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 400 Flywheel dia. 1200 mm Weight 1550 mm 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

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule 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 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 Pumps, No. One Diameter as per Rule Stroke as per Rule Driven by " " "

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate as per Rule

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 as per Rule

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. None Cubic capacity of each as per Rule Internal diameter as per Rule thickness as per Rule

Seamless, lap welded or riveted longitudinal joint as per Rule Material as per Rule Range of tensile strength as per Rule Working pressure by Rules as per Rule

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, compounded.

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

If alternating current system, state the periodicity as per Rule Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes

Generator, it is 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 the lubricating arrangements of the generators as per Rule Yes

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes and do the results comply with the requirements Yes

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test Yes

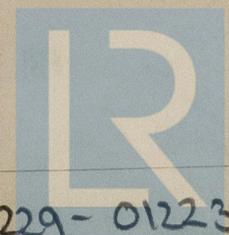
If the generators are 100 kw. or over have they been built and tested under survey as per Rule

PLANS. Are approved plans forwarded herewith for Shafting No, 24.3.37. Receivers No, 28.6.37. Separate Tanks No, 31.5.38.

SPARE GEAR as required by Rules has been supplied

The foregoing is a correct description.
Eriksbergs Mek. Verkstads Aktiebolag
Oslo

Manufacturer.



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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 *F.M. 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. S.A.
Sux.
 No 1216
 LLOYD'S TEST 80 RTM
 WP 40 RTM
 VS 6.12.37.

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *1/2 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 requirements of the Rules have been complied with. The forging report of the crank shaft was sent with the Got. report no 12159 (First Entry report of yard no 285, 1/2 Kaidema)

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 ... £ *✓* : When applied for, 19.
 Travelling Expenses (if any) £ : When received, 19.

F. Appelin
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 24 FEB 1939**
 Assigned *See P.E. machy vll.*

