

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12615

Received at London Office

23 OCT 1939

Date of writing Report 7th Oct. 1939 When handed in at Local Office 13th Oct. 1939 Port of Gothenburg

No. in Survey held at Gothenburg Date, First Survey 22nd Dec 1928 Last Survey Oct 6th 1939
Reg. Book 40954 Supplement Single on the MS. SALAMIS Screw vessel Tons Gross 8286.40
Triple Net 4900.77
Quadruple Number of Visits 19

Built at Gothenburg By whom built A.B. Gotaverken Yard No. 535 When built 1939

Owners A.S. Salamis Port belonging to Oslo

Oil Engines made at Gothenburg By whom made A.B. Gotaverken Contract No. 1349 When made 1939

Generators made at Västerås By whom made A.S.E.A. Contract No. 1064942 When made 1939

No. of Sets 1 Engine Brake Horse Power 115 Nom. Horse Power as per Rule 26 Total Capacity of Generator 75 Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil 2 or 4 stroke cycle 4 Single or double acting S.A.

Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 240 mm. Length of stroke 360 mm No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 301 mm. Is there a bearing between each crank Yes

Revolutions per minute 450 Flywheel dia. 1250 mm Weight 2245 kg. Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 139 mm. as fitted 150 mm Crank pin dia. 150 mm. Crank Webs Mid. length breadth 211 mm. Mid. length thickness 80 mm Thickness parallel to axis shrunk Thickness around eye-hole shrunk

Flywheel Shaft, diameter as per Rule Hydraulic fitted as fitted to crankshaft Intermediate Shafts, diameter as per Rule shrunk as fitted shrunk Thickness of cylinder liners 20 and 17 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 @ 5.4 ton/hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 1 @ 3.14 ton/hour

Air Compressors, No. 1 No. of stages 2 Diameters 235 & 90 mm. Stroke 220 mm Driven by Crankshaft

Scavenging Air Pumps, No. 1 Diameter 150 mm Stroke 150 mm Driven by Crankshaft

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate 1

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 Yes

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

High Pressure Air Receivers, No. 1 Cubic capacity of each 1.5 m³ Internal diameter 1850 mm thickness 25 & 25.5 mm.

Seamless, lap welded or riveted longitudinal joint Riveted Material S.M. Steel Range of tensile strength 44/50 kg/cm² Working pressure by Rules 25.1 kg/cm²

ELECTRIC GENERATORS:—Type Drip proof compound

Pressure of supply 115 volts. Full Load Current 652 Amperes. Direct or Alternating Current Direct

If alternating current system, state the periodicity 50 cycles 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 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 Yes and do the results comply with the requirements Yes

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 20-10-37 Receivers 8-8-37 Separate Tanks 5-1-39
(If not, state date of approval)

SPARE GEAR As per Rule

The foregoing is a correct description.

AKTIEBOLAGET GOTAVERKEN

[Signature]

Manufacturer.

[Signature]



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Lloyd's Register

003556-003566-0114

Dates of Survey while building
 During progress of work in shops - - } 1938 Dec 22, 1939 Jan. 12, 16, 21, 27, Mar. 13
 During erection on board vessel - - - } 1939 July 11, 25, 28, 29, Aug. 3, 16, Sept. 19, 27, 28 Oct 3, 4, 5, 6
 Total No. of visits 19

Dates of Examination of principal parts—Cylinders 12, 16-1-39 Covers 12, 16-1-39 Pistons 21-6-39 Piston rods ✓

Connecting rods 21-6-39 Crank and Flywheel shafts 27-1-39 Intermediate shafts ✓

Crank and Flywheel shafts, Material SM Steel Identification Marks M.S. 535 LLOYDS No 102007K3-6-1938

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers
 LLOYDS Nos 4470448
 T.P. 40 kg/cm²
 W.P. 25 kg/cm²
 HBS 15-5-39

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *M.S. NIKE* *Govt. rept no 12495*

General Remarks (State quality of workmanship, opinions as to class, &c. *This auxiliary engine has been built under special survey in accordance with the Rules & approved plans. The workmanship & materials are good. The crankshaft as per forging report attached. The engine has been recently fitted on board the vessel under my supervision & to my satisfaction.*

Im.11.37.—Transfer. (MADE IN ENGLAND.)
 (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

W.S. Liggins
 Surveyor to Lloyd's Register of Shipping.

FRI. 27 OCT 1939

Committee's Minute
 Assigned

See fol. 7E. 12615



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