

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12615

23 OCT 1939

Date of writing Report 7th Oct. 1939 When handed in at Local Office 13th Oct. 1939 Port of Göteborg
 No. in Survey held at Göteborg Date, First Survey 22nd Dec 1928 Last Survey Oct 6th 1939
 Reg. Book 40954 on the Single Double Triple Quadruple Screw vessel MS. SALAMIS Tons { Gross 8286.40 Net 4900.77
 Built at Göteborg By whom built A.B. Götaverken Yard No. 535 When built 1939
 Owners A.S. Salamis Port belonging to Oslo
 Oil Engines made at Göteborg By whom made A.B. Götaverken 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. Crank pin dia. 150 mm. Crank Webs Mid. length breadth 211 mm. Thickness parallel to axis 234 mm.
 as fitted 150 mm. Mid. length thickness 80 mm. Thickness around eye-hole shrunk
 Flywheel Shaft, diameter as per Rule 139 mm. Intermediate Shafts, diameter as per Rule 139 mm. Thickness of cylinder liners 20 mm & 17 mm.
 as fitted 150 mm. as fitted 150 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.4 Steel Range of tensile strength 44/50 kg/cm² Working pressure by Rules 25.1 kg/cm²
 Starting Air Receivers, No. 2 Total cubic capacity 27 m³ Internal diameter 1850 mm. thickness 25 & 25.5 mm.
 Seamless, lap welded or riveted longitudinal joint Riveted Material S.4 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 Hz 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 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 GÖTAVERKEN

Manufacturer.



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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. 15 kg/cm²
HBS 15-5-39

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *M.S. NIKE* *Got rpt 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.

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

FRI. 27 OCT 1939

Committee's Minute

Assigned

See fol. 7E. 12615

W.B. Liggins

Surveyor to Lloyd's Register of Shipping.



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