

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12206

FEB - 1 1939

Date of writing Report 25th January 1939 When handed in at Local Office 30th Jan 1939 Port of GOTHEMBURG

No. in Survey held at GOTHEMBURG

Date, First Survey 25th May 1938 Last Survey 21st January 1939

Reg. Book Supplement

Number of Visits 20

90505 on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel M/S VENEZUELATons { Gross 6991.
Net 4060.

Built at GOTHEMBURG By whom built A.B. GÖTAVERKEN Yard No. 530 When built 1939

Owners REDERI AKTIEBOLAGET NORDSTJERNAN Port belonging to STOCKHOLM

Oil Engines made at GOTHEMBURG By whom made A.B. GÖTAVERKEN Contract No. 1356/57/58/59 When made 1939

Generators made at VÄSTERÅS By whom made ASEA Contract No. 1064829/30,31,32 When made 1939

No. of Sets 4 Engine Brake Horse Power 4x150 Nom. Horse Power as per Rule 162.6 Total Capacity of Generators 400 Kilowatts.

OIL ENGINES, &c.—Type of Engines Trunk piston Diesel Oil Engines 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 43 kg/cm² Diameter of cylinders 300 mm. Length of stroke 450 mm. No. of cylinders 4x3 No. of cranks 4x3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 378 mm. Is there a bearing between each crank Yes.

Revolutions per minute 300 Flywheel dia. 5400 KG M² Weight 3800 kgs. Means of ignition Compression Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule 171 mm. as fitted 190 mm. Crank pin dia. 190 mm. Crank Webs Mid. length breadth 315 mm. Mid. length thickness 105 mm. Thickness parallel to axis shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 24-21-16 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. One 415 lit/min. main cool. syst. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size Four 2.7 tons/hour each.

Air Compressors, No. None No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. None Diameter Stroke Driven by

AIR RECEIVERS:—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 Total cubic capacity 250 liters Internal diameter 380 mm. thickness 15 mm.

Seamless, lap welded or riveted longitudinal joint Lap welded Material S.M. Skel Range of tensile strength 35.7-39.2 kg/cm² Working pressure by Rules 42.6 kg/cm²

ELECTRIC GENERATORS:—Type Drip proof, Compound

Pressure of supply 220 volts. Full Load Current 4x455 = 1820 Amperes. Direct or Alternating Current Direct.

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

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 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 30.10.37 Receivers 5.11.37 Separate Tanks

SPARE GEAR As per Rule, placed on board.

The foregoing is a correct description,

AKTIEBOLAGET GÖTAVERKEN

Manufacturer.



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W1178-0112

Dates of Survey while building { During progress of work in shops - - 1938: May. 25, 27; Sept. 26, 27; Oct. 1, 7, 12, 13, 15. Nov. 11, 19, 25, 26, 28; Dec. 7.
During erection on board vessel - - 1938: Nov. 19, Dec. 22. 1939: Jan. 19, 20, 21
Total No. of visits 20.

Dates of Examination of principal parts—Cylinders 28/9, 26/9, 27/9 1938 Covers 28/9, 26/9, 27/9 1938 Pistons 7/10 1938 Piston rods ✓

Connecting rods 15/10 1938 Crank and Flywheel shafts 12/10 & 26/11 1938.

Crank and Flywheel shafts, Material S. M. Steel

Identification Mark

M/S 519
LLOYD'S
PK 9824PK
20.5.1938

M/S ARGENTINA
LLOYD'S
PK 10219PK
30.6.1938

M/S 530
LLOYD'S
PK 10125PK
4.5.1938

M/S 530
LLOYD'S
PK 10125PK
22.4.1938

Intermediate shafts, Material ✓

Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel M/S PERU Yard No. 519.

General Remarks (State quality of workmanship, opinions as to class, &c.) The auxiliary oil engines of this ship have been built under Special Survey. The shafting as per forging reports attached. The workmanship is good, and all the requirements of the Rules have been complied with.

The amount of Fee ... £

Travelling Expenses (if any) £

When applied for,

19

When received,

19

Folke Cassel

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 7 FEB 1939

Assigned

See fol. 2E 12206



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