

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12206

FEB - 1 1939

Date of writing Report 25<sup>th</sup> January 1939 When handed in at Local Office 30<sup>th</sup> Jan 1939 Port of **Gothenburg** Received at London Office

No. in Survey held at **Gothenburg**

Date, First Survey 25<sup>th</sup> May 1938 Last Survey 21<sup>st</sup> January 1939

Reg. Book Supplement

Number of Visits 20

90505 on the <sup>Single</sup> ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel **M/S VENEZUELA**

Tons { Gross 6991.  
Net 4060.

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

Owners **REDERIAKTIEBOLAGET NORDSTJERNAN** Port belonging to **Stockholm**

Oil Engines made at **Gothenburg** 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/cm<sup>2</sup> 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 M<sup>2</sup> 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 215 mm. Thickness parallel to axis shrunk. Mid. length thickness 105 mm. 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. <sup>Also conn. to the main cool. syst.</sup> 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/cm<sup>2</sup> Working pressure by Rules 42.6 kg/cm<sup>2</sup>

**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**

*Carl V. Hedman*

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 25/9, 26/9, 27/9 1938 Covers 27/9, 24/9, 27/9 1938 Pistons 7/10 1938 Piston rods ✓  
 Connecting rods 15/10 1938 Crank and Flywheel shafts 12/10 & 24/11 1938. Intermediate shaft ✓

Crank and Flywheel shafts, Material S.M. Steel

Identification Mark 

M/S 519 LLOYD'S PK 9824PX 20.5.1938	M/S ARGENTINA LLOYD'S PK 10219PX 30.6.1938	M/S 530 LLOYD'S PK 10125PX 4.5.1938	M/S 530 LLOYD'S PK 10125PX 22.4.1938
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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 Surveys. The shafting as per forging reports attached. The workmanship is good, and all the requirements of the Rules have been complied with.

Im. 2, 36.—Transfer. (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

*Folke Cassel*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 7 FEB 1939  
 Assigned See fol. 2E 12206

