

## Report on Oil Engine Electric Generator Sets.

No. 14499.

Received at London Office 4 JAN 1946

Date of writing Report 11th Dec. 1945 When handed in at Local Office 24th Dec. 1945 Port of Gothenburg  
 No. in Survey held at Gothenburg Date, First Survey 27th Jan. 1940 Last Survey 4th Dec. 1945  
 Reg. Book. Number of Visits 26

31760 on the ~~Tux~~ <sup>Single</sup> Screw vessel "SAN ANTONIO" Tons {Gross 11163  
 Net 6676

Built at Gothenburg By whom built A-B. Götavarken Yard No. 546 When built 1945

Owners Argentine Government Port belonging to Buenos Aires

Oil Engines made at Gothenburg By whom made A-B. Götavarken Contract No. 1411/12 When made 1945

Generators made at Västerås By whom made A.S.E.A. Contract No. 1254033/4 When made 1940

No. of Sets 2 Engine Brake Horse Power 2 x 165 Nom. Horse Power as per Rule 2 x 35 Total Capacity of Generators 2 x 110 Kilowatts.

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

Maximum pressure in cylinders 45 kg/cm<sup>2</sup> Diameter of cylinders 240 mm. Length of stroke 360 mm. No. of cylinders 4 No. of cranks 4

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 160 mm. Crank pin dia. 160 mm. Crank Webs Mid. length breadth 220 mm. Thickness parallel to axis —  
 Mid. length thickness 80 mm. Thickness around eyehole —

Flywheel Shaft, diameter as per Rule — as fitted — Intermediate Shaft, diameter as per Rule — as fitted — Thickness of cylinder liners 20 mm.

Is a governor or other arrangement fitted to prevent racing of the engine ~~not fitted~~ Yes Means of lubrication Forced

Are the cylinders fitted with safety valves Yes 1 x 300 Lit/Min. Also Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

Cooling Water Pumps, No. connected to main cooling system Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 1 x 3150 lit/hour to each engine

Air Compressors, No. 2 No. of stages 2 Diameters 90, 235 mm. Stroke 220 mm. Driven by Aux. eng.

Scavenging Air Pumps, No. None Diameter — Stroke — Driven by —

AIR RECEIVERS:— Have they been made under Survey Yes State No. of Report or Certificate 980

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Main yes, Aux. fusible plug. Safety valves on compressors

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Steam and soda

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. 1 Total cubic capacity 120 litres Internal diameter 302 mm. thickness 8 mm.

Seamless, lap welded or riveted longitudinal joint Seamless Material S.M. Steel Range of tensile strength 28/35 tons Working pressure by Rules 45.5 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:— Type Drip-proof compound

Pressure of supply 220 volts Full Load Current 2 x 500 Amperes Direct or Alternating Current Direct Current

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 ~~screws~~ bolted clamps 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 23.2.1939 Receivers 15.12.1939 Separate Tanks —  
 (If not, state date of approval)

SPARE GEAR As per Rule supplied

The foregoing is a correct description,

AKTIEBOLAGET GÖTAVARKEN

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } 27th January 1940 - 4th December 1945.  
{ During erection on board vessel - - }  
Total No. of visits 26

Dates of Examination of principal parts—Cylinders 26.4. & 7.6. 1940 Covers 26.4. & 7.6. 1940 Pistons 7.11.1940 Piston rods

Connecting rods 7.11.1940 Crank ~~26.4. & 7.6. 1940~~ shafts 8.11. & 31.12. 1940 Intermediate shafts

Crank and Flywheel shafts, Material S.M. Steel Identification Marks LLOYDS 815 LLOYDS 5136  
SJ 8.11.40 GA 27.9.40

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers No. 980 LLOYDS TEST 1138 lb. W.P. 569 lb. M.B. 24.9.40

Is this machinery duplicate of a previous case Yes If so, state name of vessel m.s. "Buenos Aires" (now "San José"), Yard No. 555.

General Remarks (State quality of workmanship, opinions as to class, &c. This auxiliary machinery has been built under special survey in accordance with the Rules and approved plans. The workmanship and materials are good and test sheets for the shafting are attached.

The machinery has been securely fitted in the vessel under my inspection and to my satisfaction, tested under full power conditions and found in order.

All important forgings and castings are of Swedish manufacture.

(The Surveyor 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.

FRI. 18 JAN 1946

Committee's Minute

Assigned Sa F.E. machy. vpt

W.B. Egan  
Surveyor to Lloyd's Register of Shipping.



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