

4c. **REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.**

No. 1511

Received at London Office

Date of writing Report 6/4 1938 when handed in at Local Office ✓ Port of Kelsingfors  
 Date, First Survey 26/1 Last Survey 15/3 1938  
 Number of Visits 10

572 on the Single Screw vessel "OKSYWIE" Tons { Gross 766  
Triple { Net 342  
Quadruple

Built at Abo By whom built A.B. Crichton - Vulcan S.Y. Yard No. 747 When built 1937-38

Owners Leghuga - Polska Port belonging to Gdynia  
 Engines made at Stockholm By whom made A.B. Atlas - Diesel Engine Contract No. 85575 When made 1937  
 Generators made at Odense By whom made Thomas B. Thirge Generator Contract No. 229304 When made 1937

No. of Sets 2 Engine Brake Horse Power 2 x 100 Nom. Horse Power as per Rule 2 x 18 Total Capacity of Generators 132 Kilowatts.

**ENGINES, &c.**—Type of Engines Aux. Diesel Oil Eng. 2 stroke cycle 2 Single or double acting Single  
 Maximum pressure in cylinders 60 kg/cm<sup>2</sup> Diameter of cylinders 180 mm Length of stroke 300 mm No. of cylinders 2 No. of cranks 2  
 Position of bearings, adjacent to the Crank, measured from inner edge to inner edge 218 mm Is there a bearing between each crank Yes

Revolutions per minute 600 Flywheel dia. 900 mm Weight 457 kg. Means of ignition Compression Kind of fuel used Diesel oil  
 Crank Shaft, dia. of journals as per Rule Crank pin dia. 120 mm Crank Webs Mid. length breadth 214 mm Thickness parallel to axis ✓  
Fitted on the Crank Shaft as fitted 125 mm Mid. length thickness 54 mm Thickness around eye-hole ✓

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted Thickness of cylinder liners ✓  
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication pumps  
 Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers lagged with non-conducting material Yes

Cooling Water Pumps, No. 2 x 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes  
 Lubricating Oil Pumps, No. and size 2 x 1 Capacity 63 lit/min each  
 Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

Scavenging Air Pumps, No. 2 x 1 Diameter 260 mm Stroke 220 mm Driven by engine  
**AIR RECEIVERS:**—Have they been made under Survey Yes State No. of Report or Certificate 7168 & 7182  
 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 handhole  
 Is there a drain arrangement fitted at the lowest part of each receiver Yes  
**High Pressure Air Receivers, No.** ✓ 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.** 2 x 1 Total cubic capacity 2 x 100 lit. Internal diameter 340 mm thickness 16 mm  
 Seamless, lap welded or riveted longitudinal joint lap welded Material Steel Range of tensile strength 38 kg/cm<sup>2</sup> Working pressure by Rules 50 kg/cm<sup>2</sup>

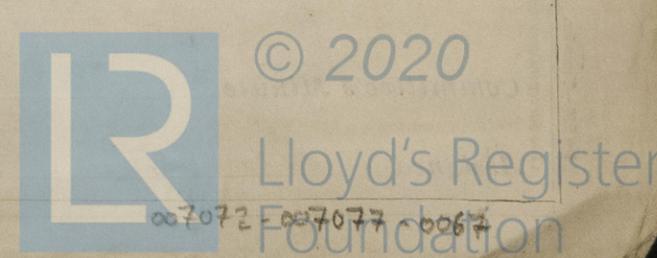
**ELECTRIC GENERATORS:**—Type D.C. compound wound  
 Pressure of supply 225 volts. Full Load Current 294 Amperes. Direct or Alternating Current Direct  
 If alternating current system, state the periodicity — Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown 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 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 ✓  
**PLANS.** Are approved plans forwarded herewith for Shafting E 7/1-37 Receivers E 24/4-35 Separate Tanks ✓  
 (If not, state date of approval)

**SHAFTS AND GEAR.** as required by Rules

The foregoing is a correct description,  
A.B. CRICHTON-VULCAN AB.  
Asst. Eng. A. B. Crichton  
 Manufacturer.



Dates of Survey while building { During progress of work in shops - - } 26/1 - 15/3 - 38  
 { During erection on board vessel - - - }  
 Total No. of visits 10

Dates of Examination of principal parts—Cylinders ✓ Covers ✓ Pistons ✓ Piston rods ✓  
 Connecting rods ✓ Crank and Flywheel shafts ✓ Intermediate shafts ✓  
 Crank and Flywheel shafts, Material ✓ Identification Marks ✓  
 Intermediate shafts, Material ✓ Identification Marks ✓  
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case *No*. If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

The workmanship is good and all requirements of the Rules have been complied with. The spare gear have been checked on board. The generators and motors have been tested under full working power on a trial trip and found to work satisfactorily.

See also the Stockholm survey report No 4595

100,537.—Transfer. (The Surveyors are requested not to write on or below this space for Committee Minute.)

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

*O. P. Ryan*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 6 MAY 1938

Assigned

*See other F.E. reports*



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