

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
 in Survey held at Åbo
 Book. 572 on the ^{Single} ~~Four~~ ^{Triple} ~~Quadruple~~ Screw vessel "OKSYWIE"
 Tons { Gross 766
 Net 342
 Built at Åbo By whom built A.B. Crichton - Vulcan C.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. 85535 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.

L ENGINES, &c.—Type of Engines *Aux. Diesel Oil Eng.* 2 or 4 stroke cycle 2 Single or double acting *Single*
 Maximum pressure in cylinders *60 kg/cm²* Diameter of cylinders *180 mm* Length of stroke *300 mm* No. of cylinders 2 No. of cranks 2
 Span 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 7mm* Flywheel dia. *900 7mm* Weight *457 kg.* Means of ignition *Compression* Kind of fuel used *Diesel oil*
 Crank Shaft, dia. of journals as per Rule *125 mm* Crank pin dia. *120 mm* Crank Webs Mid. length breadth *214 mm* Thickness parallel to axis *✓*
 as fitted *125 mm* Mid. length thickness *54 mm* Thickness around eyehole *✓*
 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 *under test* or 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/cm²* Working pressure by Rules *50 kg/cm²*
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 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 *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)
SHAFTING AND GEAR *as required by Rules*

The foregoing is a correct description,

A.B. CRICHTON-VULCAN A.B.

Manufacturer.



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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.

Seen on the Stockholm survey report No 4595

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

Committee's Minute

FRI 6 MAY 1938

Assigned

See other F.E. exp

Oliver T. ...
 Surveyor to Lloyd's Register of Shipping.



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