

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 2505.

"Cotm

Date of writing Report 16th Oct. 47 When handed in at Local Office 18th Oct. 47 Port of Malmö Received at London Office 20 OCT 1947
 Date, First Survey 19th April Last Survey 9th Oct. 1947
 Number of Visits 22
 Opening 6712 on the Single Twin Triple Quadruple Screw vessel M/T "GAUTHIOD"
 Built at Malmö By whom built Kockums Mekan. V. A. B. Yard No. 288 When built 1947
 Owners Stockholms Rederi A. B. Svea Port belonging to Stockholm
 Oil Engines made at Malmö By whom made Kockums Mekan. V. A. B. Contract No. ✓ When made 1947
 Generators made at Tävlövås By whom made Svea Contract No. ✓ When made 1947
 No. of Sets 2 Engine Brake Horse Power 150 Nom. Horse Power as per Rule 34 Total Capacity of Generators 200 Kilowatts.

L ENGINES, &c.—Type of Engines MAN. G3 V. 42 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 50 kg. cm² Diameter of cylinders 275 mm Length of stroke 420 mm No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 325 mm 350 mm
 Revolutions per minute 350 Flywheel dia. 1650 mm Weight 2560 Kgs Means of ignition Direct Kind of fuel used Heavy oil
 Crank Shaft, dia. of journals as per Rule 170 mm Crank pin dia. 170 mm Crank Webs Mid. length breadth 280 mm Thickness parallel to axis ✓
as fitted 170 mm Mid. length thickness 85 mm Thickness around eye-hole ✓
 Flywheel Shaft, diameter as per Rule ✓ Intermediate Shafts, diameter as per Rule ✓ Thickness of cylinder liners 22.5 mm
as fitted ✓ as fitted ✓
 pressure a governor or other arrangement fitted to prevent racing of the engine when de-clutched 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. 1 35 m³/H. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 Lubricating Oil Pumps, No. and size 1 2 m³/H.
 Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

R RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate nos. 155 & 156
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
 Are the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Manhole
 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 Total cubic capacity 12 m³ Internal diameter 1450 mm thickness 25 mm
 Seamless, lap welded or riveted longitudinal joint Riveted Material S.M. Steel Range of tensile strength 46.7-48.1 kg. mm² Working pressure by Rules 33.2 kg. cm²

ELECTRIC GENERATORS:—Type Open
 Pressure of supply 230 volts. Full Load Current 435 Amperes. Direct or Alternating Current Direct
 Alternating current system, state the periodicity ✓ Has the Automatic Governor been tested and found as per rule when full 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 unit 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 8. 8. 1944 Receivers 25. 9. 1944 Separate Tanks 29. 1. 1945
 (If not, state date of approval)

SPARE GEAR as per Rule supplied. ✓
 Additional spare gear:— 4 cylinder covers. 4 cylinder liners.
 4 pistons with gudgeon pins. 1 complete fuel pump.

The foregoing is a correct description,

KOCKUMS
MEKANISKA VERKSTÄDE AKTIEBOLAG

Knut Bredberg

Manufacturer.

E. B. S.



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010605-010614-0101

Dates of Survey while building

During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

From 19th April to 7th Aug. 1947.
" 19th Aug. " 9th Oct. 1947.
22.

Dates of Examination of principal parts—Cylinders 19/4 & 21/4. 1947 Covers 13/5. 1947 Pistons 5/6. 1947. Piston rods ✓

Connecting rods 25/1. 1947 Crank and Flywheel shafts 5/4. 1946 Intermediate shafts ✓

Crank and Flywheel shafts, Material S. M. Steel Identification Marks Lloyd's No. 2998 & 2999 5.4.4

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers No. 155 & 156. Lloyd's Test 44 kg. cm². W.P. 30 kg. cm². A.B. 30.5.47.

Is this machinery duplicate of a previous case Yes If so, state name of vessel M/T "SECURUS", F. to. Rpt. 235

General Remarks (State quality of workmanship, opinions as to class, &c. See Report of main engine!

The amount of Fee ... £ 230.- : When applied for, 18.10.47.

Travelling Expenses (if any) £ : : When received, 19.

Committee's Minute 21 NOV 1947

Assigned See F.E. mch. rpt.

A. Boring
Surveyor to Lloyd's Register of Shipping.



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