

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 2350.

Date of writing Report 18th May, 1946. When handed in at Local Office 22nd May 1946. Received at London Office 29 MAY 1946
 Port of Malmö.
 No. in Survey held at Malmö. Date, First Survey 10th Oct. 1945. Last Survey 9th May, 1946.
 Reg. Book suppl. 39732 on the Single Triple Quadruple Screw vessel M/T "SECURUS". Number of Visits 23.
 Built at Malmö By whom built Kockums Msk. V. A. B. Yard No. 286 When built 1946.
 Owners Rederiaktiebolaget Salomon Port belonging to Stockholm.
 Oil Engines made at Malmö By whom made Kockums Msk. V. A. B. Contract No. ✓ When made 1946.
 Generators made at Västervik By whom made Asea Contract No. ✓ When made 1946.
 No. of Sets 2 ✓ Engine Brake Horse Power 150 ✓ Nom. Horse Power as per Rule 34.37 Total Capacity of Generators 200 ✓ Kilowatts.

OIL ENGINES, &c.—Type of Engines M.A.N. L. 3 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. Is there a bearing between each crank Yes ✓
 Revolutions per minute 350. Flywheel dia. 1650 mm. Weight 2360 kgs. Means of ignition Diesel Kind of fuel used Heavy oil.
 Crank Shaft, dia. of journals as per Rule 152 mm. as fitted 170 ✓ Crank pin dia. 170 mm. Crank Webs Mid. length breadth 280 mm. ✓ Thickness parallel to axis 85 ✓ Mid. length thickness 85 ✓ Thickness round eyehole ✓
 Flywheel Shaft, diameter as per Rule ✓ Intermediate Shafts, diameter as fitted ✓ Thickness of cylinder liners 22.5 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. 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 ✓
AIR RECEIVERS:—Have they been made under Survey Yes ✓ State No. of Report or Certificate Nos. 135 & 136.
 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 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 42.8-46.2 kg. mm². ✓ Working pressure by Rules 31.2 kg. cm². ✓
ELECTRIC GENERATORS:—Type Open. ✓
 Pressure of supply 230 volts. Full Load Current 435 Amperes. Direct or Alternating Current Direct.
 If 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 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 8.8.1944 Receivers 25.9.1944 Separate Tanks 29.1.1945.
 SPARE GEAR 4 cylinder covers. 1 cylinder liner. 1 piston with gudgeon pins. 2 complete fuel pumps.

The Torsional Characteristics apply 26.6.45

The foregoing is a correct description,

KOCKUMS
MEKANISKA VERKSTADS AKTIEBOLAG

Manufacturer.

Tuntutehminen E.B.T.



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010866-010873-0195

Dates of Survey while building { During progress of work in shops - - } From 10th Oct. 1945 - 19th Jan. 1946.
{ During erection on board vessel - - } " 11th March, 1946 - 9th May, 1946.
Total No. of visits. 23.

Dates of Examination of principal parts—Cylinders 7/11. 8/11. 1945 Covers 17/10-1945 Pistons 11/12-1945. Piston rods ✓

Connecting rods 8/11-1945. Crank and Flywheel shafts 22/12-1944 Intermediate shafts ✓

Crank shaft { Material S. M. Steel Tensile strength 49.4-51.3 kg. mm².
Elongation 32-34 % Identification Marks Lloyd's No. 6457, 6458. GA. 22.12.4

Flywheel shaft, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case Yes, one below! Identification Marks ✓

Identification marks on Air Receivers Nos. 135 & 136.

Is this machinery duplicate of a previous case Yes If so, state name of vessel M/T "SVEABORG", Mms. 1st Rpt. 22/17.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) See report of main engine!

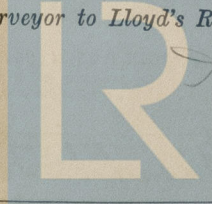
The amount of Fee ... £ ✓ : ✓ : When applied for ✓ 19

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

Committee's Minute FRI. 28 JUN 1946

Assigned See F.E. machy. rpt.

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



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