

## Report on Oil Engine Electric Generator Sets.

No. 2340.

Date of writing Report 13<sup>th</sup> April, 1946. When handed in at Local Office 16<sup>th</sup> April, 1946. Port of Malmö.  
 No. in Survey held at Malmö. Date, First Survey 13<sup>th</sup> July, 1945. Last Survey 30<sup>th</sup> March 1946.  
 Reg. Book. comp. Number of Visits 22.

39705 on the Single Twin Triple Quadruple Screw vessel M/T "SOYA II" Tons {Gross 10477 Net 6260}

Built at Malmö By whom built Kockums Mekan. V. A. B. Yard No. 279 When built 1946

Owners Peders A. O. Soga Port belonging to Stockholm

Oil Engines made at Malmö By whom made Kockums Mekan. V. A. B. Contract No. ✓ When made 1946

Generators made at Västervik By whom made Alcoa Contract No. ✓ When made 1946

No. of Sets 2 Engine Brake Horse Power 165 <sup>150</sup> Nom. Horse Power as per Rule 34 Total Capacity of Generators 220 Kilowatts.

OIL ENGINES &c.— Type of Engines M. A. N. L3. V. 42 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 50 kg/cm<sup>2</sup> 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. 2360 mm Weight 2360 kgs Means of ignition Diesel Kind of fuel used Heavy oil

Crank Shaft, dia. of journals 152 mm as per Rule ✓ Crank pin dia. 170 mm as fitted ✓ Crank Webs Mid. length breadth 280 mm Mid. length thickness 85 "shrunk ✓ Thickness parallel to axis ✓ Thickness around eyehole ✓

Flywheel Shaft, diameter as per Rule ✓ Intermediate Shaft, diameter as per Rule ✓ Thickness of cylinder liners 22.5 mm as fitted ✓

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 m<sup>3</sup>/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 m<sup>3</sup>/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 ✓

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 Mambros

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 m<sup>3</sup> Internal diameter 1450 mm thickness 25 mm

Seamless, lap welded or riveted longitudinal joint Riveted Material Im. Steel Range of tensile strength ✓ Working pressure by Rules ✓

ELECTRIC GENERATORS:— Type Open Pressure of supply 230 volts Full Load Current 479 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 ✓ 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 10.9.1943 Receivers 10.9.1943 Separate Tanks 14.7.1944

SPARE GEAR 1 cylinder cover. 1 cylinder liner. 1 pistons with gudgeon pins and

lubricating. 1 complete fuel pump.

The foregoing is a correct description,

KOCKUMS  
MEKANISKA VERKSTADS AKTIEBOLAG

Stenholm Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } 13<sup>th</sup> July, 1945 - 23<sup>rd</sup> Oct. 1945.  
{ During erection on board vessel - - } 1<sup>st</sup> Febr. 1946 - 30<sup>th</sup> March, 1946.  
Total No. of visits 22.

Dates of Examination of principal parts—Cylinders 13/7, 31/8. 1945. Covers 13/7. 1945. Pistons 11/9. 1945. Piston rods ✓

Connecting rods 18/8. 1945 Crank and Flywheel shafts 11/2. 1944 Intermediate shafts ✓

Crank and Flywheel shafts, Material S. M. Steel Identification Marks Lloyd's No. 2477/81. B. G. 11. 2. 44.

Intermediate shafts, Material ✓ Identification Marks ✓

Identification marks on Air Receivers Nos. 133 & 134. Lloyd's Test 44 kg. cm<sup>2</sup>. W.P. 30 kg. cm<sup>2</sup>. A.B. 8. 11. 45.

Is this machinery duplicate of a previous case. ✓ If so, state name of vessel. ✓

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

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.....

Committee's Minute FRI. 31 MAY 1946

igned See F.E. machy. rpt.

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



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