

Report on Oil Engine Electric Generator Sets.

No. 5629.

Received at London Office

Report 12. 4. 1943. When handed in at Local Office Port of Stockholm.
 Vessel held at Esbo, Finland Date, First Survey and Last Survey 2. 4. 1943.
 Number of Visits One

Screw vessel Tons Gross 650
 Net 129.184

By whom built A. Ekman & Söner Yards Nos. 1 When built

Port belonging to Stockholm

made at Esbo, Finland By whom made A. Bolinder Munktel Contract No. 34245-46 and 34242-43 When made 1943

made at Västerås By whom made Elektromekaniska Contract No. 332323, and 332324 When made 1943

2 Engine Brake Horse Power 2x50 Nom. Horse Power as per Rule 2x18 Total Capacity of Generators 2x307.10 Watts

Type of Engines Bolinder Diesel Type W25322 2 or 4 stroke cycle 2 Single or double acting single

Diameter of cylinders 180 mm Length of stroke 180 mm No. of cylinders 2 No. of cranks 2

Is there a bearing between each crank No

Flywheel dia 800 mm Weight 185 kg Means of ignition Delco Kind of fuel used

Crank pin dia 95 mm Crank Webs Mid length breadth 146 mm Thickness parallel to axis

Intermediate Shaft, diameter as per Rule Thickness of cylinder liners

Means of lubrication pumps

Are the silencers water cooled lagged with non-conducting material Yes

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Oil Pumps, No and size One adjustable automatic lubricator for each engine

Air Pumps, No Diameter Stroke Driven by

Have they been made under Survey Yes State No. of Report or Certificate

What means are provided for cleaning their inner surfaces. Delco

Are the receivers be examined. Yes

Arrangement fitted at the lowest part of each receiver Yes

Air Receivers, No None fitted Cubic capacity of each Internal diameter thickness

Material Range of tensile strength Working pressure by Rules

Receivers, No 2x2 Total cubic capacity 2x60 Internal diameter 320 mm thickness 5 mm

Material All Steel Range of tensile strength 50.5-52.2 Working pressure by Rules 15 kg/cm²

GENERATORS Type DW-14

115 Amps Full Load Current 30 KW Direct or Alternating Current Direct

Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off

Are they compounded as per rule is an adjustable regulating resistance fitted in series with each

Are all terminals accessible, clearly marked, and furnished with sockets

Are the lubricating arrangements of the generators as per Rule

Have the Maker's supplied certificates of test and do the results comply with the requirements

Approved plans forwarded herewith for Shafting. 3.3.1938 Receivers 16.6.1939 Separate Tanks

As per enclosed list.

One engine per ship

1/2 BOLINDER-MUNKTELL

ED/ J. Björkman.

Date of survey *2nd April, 1943.*
 Name of vessel *One invoice*
 Port No. of vessel *2.4.43*
 Date of Examination of principal parts *2.4.43*
 Connecting rods *2.4.43*
 Crank *2.4.43*
 Shaft *2.4.43*
 Rank *2.4.43*
 Shaft Material *St. Steel*
 Intermediate shafts Material *St. Steel*
 Identification marks on Air Receivers *1024-1028-1036-1041*
 Is this machinery duplicate of a previous case? *No* If so, state name of vessel *S. J. 25.2.42.*

General Remarks (State quality of workmanship, opinions as to class, etc.)
These engines have been under Special Survey and all the requirements of the Rules have been complied with. The drafting as per joining reports attached. The workmanship is good and the material fulfils the requirements of the Rules. The dimensions are as specified and in accordance with the Rules and approved plans.
Due to the shortage of oil these have not been tested in trip. The engines will, however, be tested under working conditions after their installation in the vessel.

Amount *Rs. 12/-*
 Travelling Expense *Rs. 15/-*
 Date *TUES, 16 MAY 1944*
 Signature *See R. nady*
 When applied for *13.4.43*
 When received *15.4.43*
 Signature *Folke Cass*
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