

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11348

Received at London Office

27 OCT 1941

Report made at Soleby & Esbyme when handed in at Local Office

Port of Copenhagen
 Date, First Survey 25th August 1941 Last Survey 20th August 1941
 Number of Visits 21

Single the Triple Screw vessel "EROS" Tons { Gross ✓ Net ✓
 By whom built of Esbys Jernskibs- og Maskinbyggeri Yard No. 266 When built 1941
 Port belonging to Släsingborg
 By whom made Soleby Dieselmaskin Fabrik Contract No. 3340-41 When made 1941
 By whom made Thomas B. Thirige Contract No. 234861-62 When made 1941
 Engine Brake Horse Power 2 x 120 Nom. Horse Power as per Rule 51 Total Capacity of Generators 2 x 80 Kilowatts.

INES, &c. Type of Engines Vertical Diesel Frank piston type 2 or 4 stroke cycle 4 Single or double acting single
 Pressure in cylinders 40 kg/cm² Diameter of cylinders 206 mm Length of stroke 300 mm No. of cylinders 4 No. of cranks 4
 Cranks, adjacent to the Crank, measured from inner edge to inner edge 253 mm Is there a bearing between each crank yes
 Revolutions per minute 540 Flywheel dia. 1080 mm Weight 1350 kg Means of ignition compression Kind of fuel used Crude oil
 Dia. of journals as per Rule 117 mm Crank pin dia. 125 mm Crank Webs Mid. length 295 mm Thickness parallel to axis ✓
 as fitted 125 mm Mid. length thickness 65 mm Thickness around eye-hole ✓
 Shaft diameter as per Rule ✓ Intermediate Shafts, diameter as fitted ✓ Thickness of cylinder liners 17 mm

or other arrangement fitted to prevent racing of the engine when detached yes Means of lubrication forced
 Receivers fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged
 Water Pumps, No. 2 off elec. driven 10 & 12 l/min Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
 Oil Pumps, No. and size one off each engine 1.8 l/min.
 Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓
 State No. of Report or Certificate Recimo 2470

RECEIVERS: Have they been made under Survey yes
 which can be isolated, fitted with a safety valve as per Rule yes
 internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces ✓
 An arrangement fitted at the lowest part of each receiver yes

Pressure Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓
 welded or riveted longitudinal joint ✓ Material 150 Range of tensile strength 380 Working pressure by Rules 11 kg/cm²
 Air Receivers, No. one Total cubic capacity 115 liters Internal diameter 321 mm thickness 7 mm
 welded or riveted longitudinal joint Seamless Material Salt Steel Range of tensile strength 50.7 kg/cm² Working pressure by Rules 41.8 kg/cm²

GENERATORS: Type Drip proof vertical
 supply 220 volts. Full Load Current 2 x 364 amperes Amperes. Direct or Alternating Current direct
 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
 are they compounded as per rule yes is an adjustable regulating resistance fitted in series with each ✓
yes Are all terminals accessible, clearly marked, and furnished with sockets yes
 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
 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
 generators are 100 kw. or over have they been built and tested under survey ✓

Are approved plans forwarded herewith for Shafting yes Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)
 GEAR as per Rules.

The foregoing is a correct description.

AKTIESELSKABET
 NÆLSINGBORG JERNSKIBS- OG MASKINBYGGERI
 Talsfjergensen

Manufacturer.



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Lloyd's Register
 W278 Foundation

Dates of Survey while building
 During progress of work in shops - - 25/11 - 29/11 - 3/12 - 14/12 - 30/12 - 5/1 - 14/1 - 19/1 - 16/10 40
 During erection on board vessel - - - 2/5 - 10/6 - 12/6 - 14/6 - 23/6 - 2/7 - 20/7 - 29/7 - 7/8 - 13/8 - 16/8 - 20/8 41
 Total No. of visits 21

Dates of Examination of principal parts—Cylinders and Covers 30/8 - 5/9 - 19/9 - 4/10 Pistons 30/8 - 4/10 Piston rods -

Connecting rods 25/11 - 29/11 - 3/12 - 14/12 - 4/10 Crank and Flywheel shafts 30/8 - 14/9 - 19/9 - 4/10 Intermediate shafts -
 ENR No 3340 3341

Crank and Flywheel shafts, Material S. Ct. S. Steel Identification Marks LLOYD'S No 5398 & 5399
 4 19.9.40

Intermediate shafts, Material - Identification Marks -

Identification marks on Air Receivers No 2470
 LLOYD'S TEST
 711 W
 H.P. 355.5 W
 V.S. 29.11.39

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 above generating sets have been constructed and fitted under Special Survey in accordance with the Rules at the approved places and to our satisfaction.*

The material used in construction has been tested as required by the Rules and the workmanship is good.

Rpt. 13.
 Date of writing Report
 No. in Survey Reg. Book.
 Built at
 Owners
 Electrical Installation
 Is vessel fitted with
 Have plans been
 Heating
 has the governing
 trip switch as per
 if not compound
 arranged to run
 position
 test for machines
 of the generators
 near unprotected
 injury and damage
 contact
 are they in access
 and oil
 material is used
 semi-insulating
 Is the construction
 to pilot and earth
 side of switches
 circuit
 and for each out
 Are compartment
 ammeters
 equaliser connect

1157.—Transfer. (MADE IN ENGLAND.)
 The Surveyors are requested not to write on or below the space for Committee Minute.

Amounts 3339-40-41
 The amount of Fee ... 492.50
 Travelling Expenses (if any) 112.00
 When applied for, 14/11 19 40
 When received, 20/11 19 40
 FRI. 31 OCT 1941

J. Langhild Jensen
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned
 See Cpn. J.C. 11348

