

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS, No. 11348

7 OCT 1941

Report 20th August 1941 When handed in at Local Office 19 Port of Copenhagen
 Survey held at Soleby & Elinors Date, First Survey 11th September 39 Last Survey 20th August 1941
 Number of Visits 22

Single Screw vessel "EROS"
 Tons Gross Net
 By whom built Maskenbyggeri Yard No. 266 When built 1941
 Port belonging to Helsingborg
 By whom made Soleby Dieselmot. Fabriks A/S Contract No. 3339 When made 1941
 By whom made Thomas B. Thinge Contract No. 234839 When made 1941
 Engine Brake Horse Power 90 Nom. Horse Power as per Rule 19 Total Capacity of Generators 60 Kilowatts.

INES, &c.—Type of Engine Vertical Diesel Frunk piston type 2 or 4 stroke cycle 4 Single or double acting single
 Pressure in cylinders 40 kg/cm² Diameter of cylinders 205 mm Length of stroke 300 mm No. of cylinders 3 No. of cranks 3
 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 1200 kg Means of ignition Compression Kind of fuel used Comd. oil
 as per Rule 111 mm Mid. length 295 mm Thickness parallel to axis
 as fitted 125 mm Crank pin dia. 125 mm Crank Webs Mid. length thickness 65 mm Thickness around eyehole
 Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 17 mm
 as fitted

or other arrangement fitted to prevent racing of the engine when disengaged yes Means of lubrication forced
 Valves 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 electric driven 10-12 tons/hr. Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
 Oil Pumps, No. and size 1 off 1.8 t/hr.
 Compressors, No. No. of stages Diameters Stroke Driven by
 Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey State No. of Report or Certificate
 Receiver, which can be isolated, fitted with a safety valve as per Rule
 Internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 Drain arrangement fitted at the lowest part of each receiver
 Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness
 Lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 Air Receivers, No. Total cubic capacity Internal diameter thickness
 Lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

GENERATORS:—Type Drip proof vertical
 Voltage of supply 220 volts Full Load Current 273 Amperes Direct or Alternating Current Direct
 Regulating 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
 Exciters, are they compounded as per rule yes is an adjustable regulating resistance fitted in series with each
 Are all terminals accessible, clearly marked, and furnished with sockets 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
 S. Are approved plans forwarded herewith for Shafting yes Receivers Separate Tanks

GEAR as per Rules

The foregoing is a correct description.

HELSINGBORS JERNSKIBS- OG MASKINBYGGERI Manufacturer.
 Valafjergensen



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W278-0124

Dates of Survey while building { During progress of work in shops - - } 11/9-16/9-39 14/3-28/3-30/8-5/9-19/9-16/10-40
 { During erection on board vessel - - - } 21/5-10/6-12/6-14/6-23/6-27/7-29/7-7/8-13/8-16/8-20/8-41
 Total No. of visits 22

Dates of Examination of principal parts—Cylinders and Covers 30/8-19/9-40 Pistons 30/8-40 Piston rods

Connecting rods 11/9-16/9-39-14/6-40 Crank and Flywheel shafts 14/3-28/3-14/6-40 Intermediate shafts

Crank and Flywheel shafts, Material S.M.S. Steel Identification Marks LLOYD'S NO 5211 41

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *Hobby Standard engine*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The above generating set is constructed and fitted under Special Survey in accordance with Rules, the approved plans and the requirements contained in Secretary's letter E dated 14.3.39 regarding Hobby Standard engine. The material used in construction has been tested as required by the Rules and the workmanship is good.*

Im. 11.37.—Transfer. (MADE IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ : When applied for, 19.....
 Travelling Expenses (if any) £ : When received, 19.....

FRL 31 OCT 1941

J. Langkjaer
 Surveyors to Lloyd's Register of Shipping.

Committee's Minute
 Assigned

See Opn. J.E. 11348

