

## Report on Oil Engine Electric Generator Sets.

No. 11585

Received at London Office

28 AUG 1945

Date of writing Report 11/11 1943 When handed in at Local Office 11/11 1943 Port of Copenhagen  
 No. in Survey held at 11/11 1943 Date, First Survey 4 December 1942 Last Survey 27 December 1943  
 Reg. Book. Number of Visits 7

Single  
 on the Twin } Screw vessel  
 Triple }  
 Quadruple }  
 Built at By whom built Yard No. When built  
 Owners. Port belonging to  
 Oil Engines made at 11/11 1943 By whom made 11/11 1943 Contract No. 3625 When made 1943  
 Generators made at 11/11 1943 By whom made 11/11 1943 Contract No. 116026 When made 1943

No. of Sets 1 Engine Brake Horse Power 2/10 Nom. Horse Power as per Rule 255 Total Capacity of Generators 6 Kilowatts.

OIL ENGINES &c.— Type of Engines Vertical Diesel engine 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 49 kg/cm<sup>2</sup> Diameter of cylinders 130 mm Length of stroke 180 mm No. of cylinders one No. of cranks one

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 160 mm Is there a bearing between each crank yes

Revolutions per minute 750 Flywheel dia. 650 mm Weight 175 kg Means of ignition compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 74.4 mm 70.9 mm Crank pin dia. 85 mm Crank Webs Mid. length breadth 188 mm Thickness parallel to axis 9 mm

Flywheel Shaft, diameter as per Rule 85 mm Intermediate Shaft, diameter as per Rule 85 mm Thickness of cylinder liners 11 mm

Is a governor or other arrangement fitted to prevent racing of the engine when decoupled 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 off 0.94 l/min Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 off 0.45 l/min

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 State No. of Report or Certificate

Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver

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. Total cubic capacity Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:— Type Drip proof vertical

Pressure of supply 110 volts Full Load Current 54.5 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 yes and do the results comply with the requirements yes

If the generators are 100 kw. or over have they been built and tested under survey

PLANS. Are approved plans forwarded herewith for Shafting yes Receivers Separate Tanks

SPARE GEAR as per Rules

The foregoing is a correct description,

AKTIESELSKABET  
 HOLEBY DIESELMOTOR FABRIK

Manufacturer.



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Dates of Survey while building { During progress of work in shops - } 4/12-8/12-12/12-42 17/2-2/4-4/5 27/10-43  
{ During erection on board vessel - - }  
Total No. of visits  
Dates of Examination of principal parts—Cylinders ..... and Covers 17/2-43 Pistons 17/2-43 Piston rods.....  
Connecting rods 4/12-8/12-12/12-42 Crank and Flywheel shafts 4/5-24/5-25/6-37 Intermediate shafts.....  
Crank and Flywheel shafts, Material S. cl. S. Steel Identification Marks LLOYD'S NO 3801 4 25-8-37  
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 Solely Standard engine 1.13

General Remarks (State quality of workmanship, opinions as to class, &c. The above generating set has been constructed under special survey in accordance with the Rules and the approved plans of the work sheet.  
The material used in construction has been tested as required by the rules and the workmanship is good.  
On completion the generating set was tested on the test bench under full power working conditions and found good.

(The Surveyor are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 100.00 When applied for, 12/11.19.43  
Travelling Expenses (if any) £ 25.00 When received, 20/11.19.43  
Committee's Minute ... FRI. 16 APR 1948  
Assigned ... See F.E. machy. rpt.

J. R. Langhorne  
Surveyor to Lloyd's Register of Shipping.



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