

Report on Oil Engine Electric Generator Sets.

No. 11585

Received at London Office 28 AUG 1945
 Date of writing Report 30/10 1943 When handed in at Local Office 11/11-43 Port of Copenhagen
 No. in Survey held at 125 Date, First Survey 12th October 1942 Last Survey 7th September 1943
 Reg. Book. Number of Visits 8

Single
 on the Twin } Screw vessel
 Triple
 Quadruple }
 1/5 Bunnick Main order ARSENAL II
 Tons { Gross
 Net

Built at By whom built Yard No. When built

Owners Port belonging to

Oil Engines made at 125 By whom made 125 Diesel Engine Fabric Contract No. 3626 When made 1943

Generators made at 125 By whom made 125 Contract No. 116224 When made 1943

No. of Sets one Engine Brake Horse Power 75 Nom. Horse Power as per Rule 19 Total Capacity of Generators 50 Kilowatts.

OIL ENGINES &c.— Type of Engines Vertical Diesel, crank piston, solid injection or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 49 kg/cm² Diameter of cylinders 205 mm Length of stroke 300 mm No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 253 mm Is there a bearing between each crank yes

Revolutions per minute 450 Flywheel dia. 1080 mm Weight 810 kg Means of ignition compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 111 mm 112 as fitted 125 mm Crank pin dia. 125 mm Crank Webs Mid. length 295 mm shrunk Thickness parallel to axis 14 mm

Flywheel Shaft, diameter as per Rule Intermediate Shaft, diameter as per Rule Thickness of cylinder liners 62.7 mm 17 mm

Is a governor or other arrangement fitted to prevent racing of the engine when detached 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 4 m³/hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size one off abt 2 m³/hour

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 Dry proof ventilated

Pressure of supply 110 volts Full Load Current 454 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
 HOLBERG DIESELMOTOR FABRIK

Manufacturer.



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Lloyd's Register
 Foundation

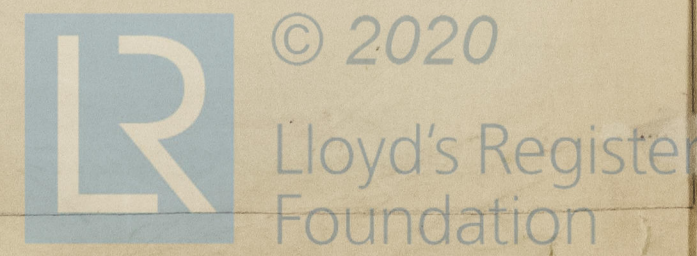
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Dates of Survey while building { During progress of work in shops - - } 1942: - 12/10 - 23/10 - 31/10 - 4/11 1943 2/4 - 10/5 - 7/9
{ During erection on board vessel - - }
Total No. of visits 8
Dates of Examination of principal parts - Cylinders 10/5 - 43 Covers 10/5 - 43 Pistons 10/5 - 43 Piston rods
Connecting rods 3/10 - 4/11 - 42 - 9/2 - 43 Crank and Flywheel shafts 12/10 - 23/10 - 31/10 - 42 9/4 - 43 Intermediate shafts
Crank and Flywheel shafts, Material S.M. forged steel Identification Marks LLOYD'S NO 5838 49.4.43
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 of 320

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 plan of the crank shaft.
The materials 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 & found good.

The amount of Fee £ 220.00 When applied for, 12/11.1943.
Travelling Expenses (if any) £ 75.00 When received, 20/11.1943.
Committee's Minute FRI. 16 APR 1948
Assigned See F.E. McKay. rpt.

R. Langfield Turner.
Surveyor to Lloyd's Register of Shipping.



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