

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 24176<sup>a</sup>

Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of Hamburg

No. in Survey held at Reg. Book. 23490 on the Single Twin Triple Quadruple Screw vessel DRUPA

Tons { Gross 8102 Net 4754

Built at HAMBURG By whom built DEUTSCHE WERFT A.G. Yard No. 218 When built 1939-8

Owners Port belonging to

Oil Engines made at MANNHEIM By whom made MOTOREN-WERKE MANNHEIM A.G. Contract No. 41717 When made

Generators made at By whom made Contract No. When made

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

**OIL ENGINES, &c.**—Type of Engines HEAVY OIL TYPE R.H. 326 Z. 2 or 4 stroke cycle 4 Single ~~double~~ acting YES.

Maximum pressure in cylinders 45 kg/cm<sup>2</sup> Diameter of cylinders 175 mm. Length of stroke 260 mm. No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 216 mm. Is there a bearing between each crank YES.

Revolutions per minute 390. Flywheel dia. 1200 mm. Weight 1630 kgs. Means of ignition COMPRESSION Kind of fuel used HEAVY OIL

Crank Shaft, dia. of journals as per Rule 95 mm. as fitted 110 mm. Crank pin dia. 110 mm. Crank Webs Mid. length breadth 145 mm. Thickness parallel to axis ✓ Mid. length thickness 48.5 mm. Thickness around eyehole ✓

Flywheel Shaft, diameter as per Rule 95 mm. as fitted 110 mm. Intermediate Shafts, diameter as per Rule ✓ as fitted ✓ Thickness of cylinder liners

Is a governor or other arrangement fitted to prevent racing of the engine when declutched ? Means of lubrication ?

Are the cylinders fitted with safety valves ? Are the exhaust pipes and silencers water cooled or lagged with non-conducting material ?

Cooling Water Pumps, No. ? Is the sea suction provided with an efficient strainer which can be cleared within the vessel ?

Lubricating Oil Pumps, No. and size ?

Air Compressors, No. Solid injection 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 see back

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

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

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

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. 2 Total cubic capacity 225 ltrs Internal diameter ? thickness ?

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

**ELECTRIC GENERATORS:**—Type ?

Pressure of supply ? volts. Full Load Current ? Amperes. Direct or Alternating Current ?

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 ?

Generators, are they compounded as per rule ? is an adjustable regulating resistance fitted in series with each shunt field ?

Are all terminals accessible, clearly marked, and furnished with sockets 2

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched ? Are the lubricating arrangements of the generators as per Rule ?

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test ? and do the results comply with the requirements ?

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

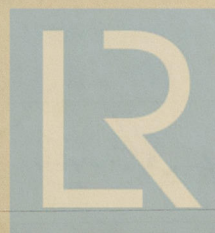
**PLANS.** Are approved plans forwarded herewith for Shafting 4/5/38. Receivers No. Separate Tanks No.

(If not, state date of approval)

**SPARE GEAR**

The foregoing is a correct description.

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - }  
 { During erection on board vessel - - - }  
 Total No. of visits

Dates of Examination of principal parts—Cylinders Covers Pistons Piston rods  
 Connecting rods Crank and Flywheel shafts Intermediate shafts  
 Crank and Flywheel shafts, Material Identification Marks ?  
 Intermediate shafts, Material Identification Marks  
 Identification marks on Air Receivers ?

Is this machinery duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

aux air bottle - 2  
 1 after 8/415/48 CH 101882  
 Probedrunk - 60 atm  
 Inhalt 150 ltr

Judene 37/8/287/9 CH 88809  
 Pro LR CA 75 ltr  
 Probedrunk 60 atm

HS.

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

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 23 FEB 1940

Assigned

See Ham. 24176<sup>a</sup>. 36



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