

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 26536

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No. in Survey held at ANTWERP Date, First Survey 26-10-51 Last Survey 14-12-1950

Book. Number of Visits 16

On the Single Screw vessel m/v "KAMINA, ex 'ROYAL HAROLD" Tons { Gross 442.4  
Triple Net 287.4  
Quadruple

Port at Hoboken By whom built J. Van Cockerill Yard No. 682 When built 1940

Engines made at Rotterdam By whom made P. Duit J. Contract No. 577 When made 1940

Generators made at Charleroi By whom made Atch. de Const. Elect. Contract No. - When made 1940

Number of Sets two Engine Brake Horse Power 180 (each) M.N. as per Rule 45 (each) Total Capacity of Generators 240 Kilowatts.

Set intended for essential services. Yes

**L ENGINES, &c.**—Type of Engines Borniste & Van Type 32 V 47 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 49 kg/cm<sup>2</sup> Diameter of cylinders 220 Length of stroke 270 No. of cylinders 2 No. of cranks 3

Mean indicated pressure 6.5 kg/cm<sup>2</sup> Firing order in cylinders 1-2-1 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 277

Is there a bearing between each crank Yes Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 1280 Revolutions per minute 400

Flywheel dia. 1200 Weight 1550 Means of ignition compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule - as fitted 150 Crank pin dia. 150 Crank Webs Mid. length breadth 245 Mid. length thickness 85 Thickness parallel to axis 85 Thickness round eye-hole 67.5

Flywheel Shaft, diameter as per Rule - as fitted - Intermediate Shafts, diameter as per Rule - as fitted - General armature, moment of inertia (16 m<sup>2</sup> or Kg.-m.<sup>2</sup>) 190

Means provided to prevent racing of the engine when declutched Yes Means of lubrication grease Kind of damper if fitted -

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. 2 in main E.R. 15 m<sup>3</sup>/hr. each As the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size one attached 4.4 Tm/hr.

Compressors, No. none No. of stages - Diameters - Stroke - Driven by -

Blowing Air Pumps, No. one Diameter - Stroke - Driven by an motor

**AIR RECEIVERS:**—Have they been made under Survey Yes State No. of Report or Certificate -

Each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Are the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces -

Are 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 -

Are the joints lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

Low Pressure Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -

Are the joints lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

**ELECTRIC GENERATORS:**—Type 6 P - 8 A.C.E.E.

Pressure of supply 220 volts. Full Load Current 521 Amperes. Direct or Alternating Current D.C.

Is the system an alternating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown 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 Yes

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

Do the generators are under 100 kw. full load rating, have the makers supplied certificates of test - and do the results comply with the requirements -

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

Are there any shafts of driven machinery other than generator -

Are approved plans forwarded herewith for Shafting Yes Receivers - Separate Tanks -

Have Torsional Vibration characteristics if applicable been approved - Armature shaft Drawing No. -

Are there any spare gear as per Rule requirements

The foregoing is a correct description,

Manufacturer.



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