

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 26536

27 MAR 1951

Received at London Office.

Date of writing Report 2nd March 1951 When handed in at Local Office 24-3-1951 Port of ANTWERP

No. in Survey held at ANTWERP Date, First Survey 26-10-51 Last Survey 14-12-1950  
J. Book. Number of Visits 16Single on the Twin Triple Quadruple Screw vessel m/o "KAMINA, ex 'ROYAL HAROLD' Tons { Gross 442.4 Net 287.4  
Built at Hoboken By whom built John Cockenill Yard No. 632 When built 1940

Belgian Navy Port belonging to

Engines made at Rotterdam By whom made P. Duit J. Contract No. 1779 When made 1940

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

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, &amp;c.—Type of Engines Burnmaster &amp; Twin Type 22 V 4 2 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 3Indicated pressure 65 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 277Is 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 150 as fitted 150 Crank pin dia 150 with 75 hole Crank Webs Mid. length breadth 24.5 Mid. length thickness 8.5 Thickness parallel to axis 8.5 Thickness round eye-hole 6.5

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 forced 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 Ton/hr.

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

Sucking Air Pumps, No. one Diameter Stroke Driven by air motor

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

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

Are 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

Is the 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

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

ELECTRIC GENERATORS:—Type G.P.-8 A.C.F.C.

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

Is the 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

Are the generators 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 details of driven machinery other than generator

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

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

ARE GEAR as per Rule requirements

The foregoing is a correct description,

Manufacturer.



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Foundation

014925-014934-0090

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 shaft { Material.....Tensile strength.....  
Elongation.....Identification Marks.....

Flywheel shaft, 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.) *The above machinery has been completely opened out and examined, the principal scantlings have been checked and found to correspond with the figures noted above. The machinery has been examined and tried under working conditions and found satisfactory.*

The amount of Fee ... } See Rpt. 13 : When applied for 19  
Travelling Expenses (if any) } : : When received 19

Committee's Minute

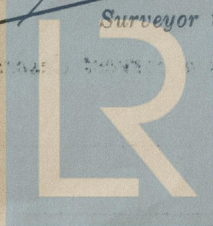
FRI. 19 OCT 1951

Assigned

*See F.E. Melby rpt.*

*[Signature]*

Surveyor to Lloyd's Register of Shipping.



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