

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 26536

Received at London Office

Date of writing Report 24 March 1951 When handed in at Local Office 24-3-1951 Port of ANTWERP 27 MAR 1951

No. in Survey held at ANTWERP Date, First Survey 26-10-50 Last Survey 14-12-1950

on the Single Triple Screw vessel M/V "KAMINA" ROYAL HAROLD Tons Gross 444.4 Net 287.4

built at Hoboken By whom built J. M. Cockrell Yard No. 682 When built 1940

Engines made at Deming By whom made J. M. Cockrell Contract No. 6199 When made 1940

Generators made at Charlevoix By whom made Del. de Cont. Electre Contract No. When made 1940

of Sets two Engine Brake Horse Power 240 M.N. as per Rule 60 (calc.) Total Capacity of Generators 240 Kilowatts.

Set intended for essential services J

L ENGINES, &c.—Type of Engines Bunnitt & Van Type 432 V.H.K. 2 or 4 stroke cycle Single or double acting Triple

Maximum pressure in cylinders 49 kg/cm² Diameter of cylinders 220 Length of stroke 170 No. of cylinders 4 No. of cranks 4

Indicated pressure 65 kg/cm² Firing order in cylinders 1-4-2-3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 277

Where a bearing between each crank J Moment of inertia of flywheel (16 m² or Kg.-m.²) 1280 Revolutions per minute 400 (320)

Flywheel dia 1200 Weight 1550 kg Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 150 Crank pin dia 150 with 75 hole Mid. length breadth 245 Thickness parallel to axis 85

as fitted 150 Crank Webs Mid. length thickness 85 Thickness round eyehole 67.5

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-m.²) 190

Means provided to prevent racing of the engine when declutched J Means of lubrication forced Kind of damper if fitted

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

Working Water Pumps, No. 2 in main E.R. 15 m³/hr Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size one attached suction 52 m³/hr dia 56 mm

Compressors, No. two No. of stages two Diameters 250 - 280 Stroke 190 Driven by attached

Exhausting Air Pumps, No. two (one for each motor) Diameter Stroke Driven by Aux. Motors

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

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

Are the internal surfaces of the receivers be examined J What means are provided for cleaning their inner surfaces detachable head

Where a drain arrangement fitted at the lowest part of each receiver J block

High Pressure Air Receivers, No. none Cubic capacity of each Internal diameter thickness

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

Working Air Receivers, No. two Total cubic capacity 100 lit. Internal diameter 300 thickness 9

Seamless, lap welded or riveted longitudinal joint Material S. M. steel Range of tensile strength 36/44 Working pressure by Rules 20 kg/cm²

ELECTRIC GENERATORS:—Type A.C.E.C. Type G.P.P.

Pressure of supply 210 volts Full Load Current 500 Amperes Direct or Alternating Current Direct current

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

Are all terminals accessible, clearly marked, and furnished with sockets J Are they so spaced

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

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

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

Details of driven machinery other than generator

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

Have Torsional Vibration characteristics if applicable been approved (state date of approval) Armature shaft Drawing No.

GEAR as per Rule requirements

The foregoing is a correct description,

Manufacturer.



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014925-014934-0089

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. No 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 tried under full load 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. mslay rpt

G. J. Thompson
Surveyor to Lloyd's Register of Shipping.



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