

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 Screw vessel M/V "KAMINA ex ROYAL HAROLD" Tons { Gross 4424 Net 2874 Number of Visits 16

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

Engines made at Denain By whom made J.M. Cockbill Contract No. 6199 When made 1940

Generators made at Charleville By whom made Atel de Comte Electric Contract No. When made 1940

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

Set intended for essential services Yes

L ENGINES, &c.—Type of Engines Penniston & Fair Type 432 V.H.K. 2/2 or 4 stroke cycle Single or double acting single

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 Yes Moment of inertia of flywheel 1280 Kg.-m.² Revolutions per minute 400 (320)

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

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

Wheel Shaft, diameter Intermediate Shafts, diameter General armature, moment of inertia 190 Kg.-m.²

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

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

Lubricating Oil Pumps, No. and size one attached to suction 52 mm dia. 5.6 tons/hr.

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

Revolving Air Pumps, No. two (one for each motor) Diameter Stroke Driven by aux. motor

AIR 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 Yes

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

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 they 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

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

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

Pressure of supply 230 volts. Full Load Current 500 Amperes. Direct or Alternating Current direct current

Is 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 they 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

Details of driven machinery other than generator

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

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

SHAFTING GEAR as per Rule requirements

The foregoing is a correct description,

Manufacturer.



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ADM 12.10.51

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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 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.*

501, 1, 18.—T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

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. usley. rpt

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

