

Rpt. 4c

Date of writing report 25th July, 1958.

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Tokyo Hiroshima  
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Port

YOKOHAMA &amp; SHIMONOSEKI 2595

Tokyo 14th April 1958

First date 31st July 1957

Last date Hiroshima 19th July 1958

## FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship M. V. "OCEANIA MARU" Owners Mitsubishi Kaiun K.K.  
(Or Contract No. if name unknown) Hiroshima, Japan (Or Consignees) KK  
Ship Built at Hiroshima Shipyard, Mitsubishi Zosen when 137  
Auxiliary Engines by Chitatsu made at Tokyo by Tokyo Motor Vehicle Works when 4-1958 Eng. Nos. 133194  
Total No. of sets and description (including type name) 3 sets-Yokohama M.A.N. Trunk Piston Precombustion type Diesel Engine supercharged

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 5 Dia. of cylinders 235mm Stroke 330mm  
2 or 4 stroke cycle 4 Maximum approved BHP 300 at 514 RPM Corresponding MIP 9.06 kg/cm<sup>2</sup> Maximum pressure 65 kg/cm<sup>2</sup>  
Fuel Diesel Oil Are cylinders arranged in Vee or other special formation? No If so, No. of  
crankshafts per engine None Is engine of opposed piston type? No No. and type of mechanically driven scavenge pumps or blowers  
per engine One set No. of exhaust gas driven blowers or superchargers per engine One set Is welded construction  
used for: Bedplate? No Entablature? No Total internal volume of crankcase (if 20 cu. ft. or over) 38.5 cu. ft. No. and total area of  
crankcase explosion relief devices 2 x 13.4 in<sup>2</sup> Are flame guards or traps fitted? No Cooling medium for: Cylinders Sea Water  
Pistons Compressed Air No. of attached pumps: F.W. cooling One set S.W. cooling One set Lubricating oil One set How is engine started? by

SHAFTING. Is a damper or detuner fitted? No No. of main bearings 6 Are bearings of ball or roller type? No Distance between  
inner edges of bearings in way of cranks 284 mm Crankshaft: built/solid Material of crankshaft Electric furnace steel Approved  
minimum tensile strength 55 kg/mm<sup>2</sup> Dia. of pins 155mm Journals 155mm Breadth of webs at mid throw 273mm Axial  
thickness 80mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 1300mm Weight 1600 kgs. Are balance  
weights fitted? No Total weight - Rad. of gyration - Dia. of flywheel shaft -  
Has each engine been tested in shop? Yes How long at full power? 2 Hours Was it tested with driven machinery attached? Yes Was the  
governing tested and found satisfactory? Yes Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 4-1-1958 400D.  
Date of approval of shafting 7-10-1957 Identification marks on shafting LLOYD'S KOB No. S-CK2460 No. S-CK2466 No. S-CK2515 17-12-57  
Particulars of driven machinery Generator: 3 Phase A.C. 60 cycles 445V. 328A. 250K.V.A. Maker: Mitsubishi Electric Mfg. Co., Ltd.,  
Serial Nos. 536014, 536015 & 536016.

Port and No. of Certificate for Starting Air Receivers Kobe AR 49316

AUXILIARY GAS TURBINES. BHP per set - At - RPM of output shaft. Open or closed cycle? -  
Arrangement of turbines. HP drives - at - RPM HP gas inlet temp. - pressure -  
(A small diagram should be attached showing gas cycle) IP - at - IP - - - -  
LP - at - LP - - - -  
No. of air compressors per set - Centrifugal or axial flow type? - Material of turbine blades -  
Material of compressor blades - No. of air coolers per set - No. of heat exchangers per set - How are  
turbines started? - Are the turbines operated in conjunction with free piston gas generators? -  
Total No. of free piston gas generators - Dia. of working pistons - Dia. of compressor pistons - No. of double strokes  
per minute at full power - Gas delivery pressure - Gas delivery temperature -  
Have the turbines and attached equipment been tested in shop? - How long at full power? - Were they tested with driven machinery  
attached? - Particulars of gearing -  
Date of approval of plans - Identification marks - Particulars of driven machinery -

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over Nagasaki, ACG 2329, ACG 2330, ACG 2331.  
For generators under 100 Kw., has Makers' Certificate been obtained? Yes Are Certificates attached? Yes

The foregoing description is correct and the particulars are as approved for torsional vibration characteristics (strike out words not applicable)  
Mitsubishi Nippon Hvy. Ind. Ltd., Tokyo Motor Vehicle Works  
Chief of Engine Technical Dept. K. Okamura Manufacturer

Is this machinery duplicate of a previous case? No If so, which? -

GENERAL REMARKS. State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters.  
State quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

These oil engine electric generator sets have been constructed under supervision of the Society's Surveyors  
in accordance with the Rules, Approved plans and Secretary's letters. The workmanship and materials have been  
found satisfactory. These Oil Engine Electric Generator sets have been examined during and after shop trial and  
found in order. Crank case explosion relief devices are fitted as per Rules. It is submitted that these oil  
Engine Electric Generator sets are eligible in our opinion to be classed with this Society with the notation of  
+ LMC with date when satisfactorily installed in the vessel.

Survey Fee ¥132,000.- 16th April, 1958 YOKOHAMAExpenses -Date when a/c rendered -

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the M. V. "OCEANIA MARU"  
at Hiroshima in a proper manner and found satisfactory when tested on the (date) 10th July, 1958 under full working conditions.

G. M. Kersey &amp; K. Okada Engineer Surveyor to Lloyd's Register

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