

Rpt. 4c

Date of writing report Received London Port YOKOHAMA No. 2593
Survey held at Tokyo No. of visits 13 First date 12th Feb. 1959 Last date 2nd June, 1959

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship s.s. "GEKKO MARU" Owners Tokyo Tanker Co.
Ship Built at Kobe by Kawasaki Dock Yard Co. when Yard No. 972
Auxiliary Engines or Gas Turbines made at Tokyo by Tokyo Motor Vehicle Works
Total No. of sets and description (including type name) 1 x D E 2 M P - 394 type Diesel Engine

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 6 Dia. of cylinders 150 mm Stroke 200 mm
2 or 4 stroke cycle 4 Maximum approved BHP 160 at 1200 RPM Corresponding MIP 7.08 kg/cm2 Maximum pressure 60 kg/cm2
Fuel Gas Oil Are cylinders arranged in Vee or other special formation? No
Pistons - No. of attached pumps: F.W. cooling 1 S.W. cooling 0 Lubricating oil 1 How is engine started? by Electric Motor

SHAFTING. Is a damper or detuner fitted? Yes No. of main bearings 7 Are bearings of ball or roller type? No
inner edges of bearings in way of cranks 179 mm Crankshaft: Built, semi-built, Solid Material of crankshaft Alloy (Cr-Mo) Steel
minimum tensile strength 90kg/mm2 Dia. of pins 95mm Journals 100mm Breadth of webs at mid throw 150mm Axial thickness 41mm
Total weight 30 kg Rad. of gyration 175mm Dia. of flywheel shaft -
Date of approval of shafting 28-1-59 Identification marks on shafting 33-3979-1 LLOYD'S Yka No. Y-13910-1 IS17-4-59 HT. 13-5-59

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
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?
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
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 No. 450406 LLOYD'S TEST KOB
For generators under 100 Kw., has Makers' Certificate been obtained? Are Certificates attached?

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

Is this machinery duplicate of a previous case? 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.
This auxiliary oil engine have been constructed under Special Survey in accordance with the Society's Rules, Approved Plans and Secretary's Letters.
The material and workmanship are sound and good.
This auxiliary oil engine have been examined under full working condition in the makers shop and found satisfactory.

Survey fee ¥ 25500 - YOKOHAMA
Expenses
Date when a/c rendered JUL 28 1959
Engineer Surveyor to Lloyd's Register

Declaration to be signed by Surveyor at fitting-out Port: The above described machinery has been fitted on board the s.s. "GEKKO MARU"
at Kobe in a proper manner and found satisfactory when tested on the (date) 9-9-59 under full working conditions.

/ft
Engineer Surveyor to Lloyd's Register
Foundation

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