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of writing report AUG. 28. 1957 | Received London | Port KOBE | No. FE-4885

y held at Osaka | No. of visits 9 | First date 20-12-56 | Last date 10-7-1957

# FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

e of Ship M.V. "KOHOH MARU" Owners Daido Kaiun K.K.
Contract No. if name unknown). (Or Consignees)

Built at Nagasaki by Mitsubishi Zosen K.K., Nagasaki Works when 1957-10 Yard No. 1497

iliary Engines or Gas Turbines made at Osaka, Japan by Daihatsu Kogyo K. K. when July, 1957 Eng. Nos. 525004, 525005, 525006

l No. of sets and description (including type name) 3 --- 5PST-25B Type "DAIHATSU" Diesel Engine

**ERNAL COMBUSTION RECIPROCATING ENGINES.** No. of cylinders per engine 5 Dia. of cylinders 250mm Stroke 320mm

4 stroke cycle 4 Maximum approved BHP 300 at 450 RPM Corresponding MIP 7.64kg/cm² Maximum pressure 55 kg/cm²

Diesel Oil Are cylinders arranged in Vee or other special formation? No. If so, No. of

kshafts per engine - Is engine of opposed piston type? No. No. and type of mechanically driven scavenge pumps or blowers

engine - No. of exhaust gas driven blowers or superchargers per engine 1 Is welded construction

for: Bedplate? Yes. Entablature? No. Total internal volume of crankcase (if 20 cu. ft. or over) 52.8 ft³ No. and total area of

kcase explosion relief devices 3 - 30.1 in² Are flame guards or traps fitted? No. Cooling medium for: Cylinders Water

ons - No. of attached pumps: F.W. cooling 1 S.W. cooling - Lubricating oil 1 How is engine started?

mpressed air

**AFTING.** Is a damper or detuner fitted? No. No. of main bearings 6 Are bearings of ball or roller type? No. Distance between

r edges of bearings in way of cranks 318mm Crankshaft: ~~built/semi-built~~ solid. Material of crankshaft Forged Steel Approved

imum tensile strength 55 kg/cm² Dia. of pins 170 mm Journals 200mm Breadth of webs at mid throw 250mm Axial

kness 82mm If shrunk, radial thickness around eyeholes - Dia. of flywheel 1300mm Weight 1920kgs. Are balance

hts fitted? Yes. Total weight 188mm Rad. of gyration 140.5mm Dia. of flywheel shaft -

each engine been tested in shop? Yes. How long at full power? 4 hours. Was it tested with driven machinery attached? Yes. Was the

erning tested and found satisfactory? Yes. Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) 9-4-57 29/3/57

e of approval of shafting 27-11-56 Identification marks on shafting LLOYD'S KOB NO.KT-CK310 SM LR 9-1-57
LLOYD'S KOB NO.KT-CK314 MH LR 1-3-57
LLOYD'S KOB NO.KT-CK316 MH LR 29-12-57

ticulars of driven machinery 250KVA AC Generator 450V, 321A, 450 r.p.m.
r Compressor (TS-27/20 type 200 m³/h, 30 kg/cm², HP 270 - 245mm, LP 270mm, stroke 200mm) (Eng.No.525005 & 525006)

and No. of Certificate for Starting Air Receivers

**XILIARY GAS TURBINES.** BHP per set At RPM of output shaft. Open or closed cycle?

ngement of turbines. HP drives at RPM HP gas inlet temp. pressure
nall diagram should be hed showing gas cycle) IP " at " IP " " " "
LP " at " LP " " " "

of air compressors per set Centrifugal or axial flow type? Material of turbine blades

erial of compressor blades No. of air coolers per set No. of heat exchangers per set How are

ines started? Are the turbines operated in conjunction with free piston gas generators?

l No. of free piston gas generators Dia. of working pistons Dia. of compressor pistons No. of double strokes

minute at full power Gas delivery pressure Gas delivery temperature

e the turbines and attached equipment been tested in shop? How long at full power? Were they tested with driven machinery

ched? Particulars of gearing

e of approval of plans Identification marks Particulars of driven machinery

**CTRIC GENERATORS.** Port and No. of Certificate for generators of 100 Kw. and over

generators under 100 Kw., has Makers' Certificate been obtained? Are Certificates attached?

foregoing description is correct and the particulars are as approved for torsional vibration characteristics (strike out words not applicable)

Yunosuke Murai
Chief of Osaka plant Manufacturer
Daihatsu Kogyo K. K.

is machinery duplicate of a previous case? If so, which?

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

These auxiliary oil engines have been constructed under special Survey in accordance with the Rules, proved plan and Secretary's letters.
The materials and workmanship are good.
The auxiliary oil engines have been examined under full working condition and found satisfactory.

ey Fee ¥132,000.- JUL 12 1957
nses 9,000.-
when a/c rendered

J. Hosokawa
Engineer Surveyor to Lloyd's Register

aration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the M.T. "KOHOH MARU"
Nagasaki in a proper manner and found satisfactory when tested on the (date) 16th Sept., 1957 under full working conditions.

Engineer Surveyor to Lloyd's Register

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