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City held at Yokohama No. of visits 68 First date 12-5-1961 Last date 10-10-1961

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship _____ Owners V/O "SUDOIMPORT"
 Contract No. if name unknown) _____ (Or Consignees) _____
 Built at Hiroshima, Japan by Mitsubishi Zosen Co. Ltd. when 2-1962 Yard No. 145
 Auxiliary Engines 4 x 667T/Turbines made at Yokohama, Japan by Mitsubishi Nippon Heavy Ind., Ltd. when 10-1961 Eng. Nos. D133297, 8 & 9
 Total No. of sets and description (including type name) 3 sets, Yokohama M.A.N. G6VA type trunk piston, supercharged Diesel engine.

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 6 Dia. of cylinders 235mm Stroke 330mm
4 stroke cycle 4 Maximum approved BHP 500 metric at 600 RPM Corresponding MIP 10.8 kg/cm² Maximum pressure 68 kg/cm²
diesel oil Are cylinders arranged in Vee or other special formation? No If so, No. of
shafts per engine - Is engine of opposed piston type? - No. and type of mechanically driven scavenge pumps or blowers
engine - No. of exhaust gas driven ~~blowers~~ superchargers per engine 1 set Is welded construction
for: Bedplate? No Entablature? No Total internal volume of crankcase (if 20 cu. ft. or over) 1.34 m³ No. and total area of
crankcase explosion relief devices 2 and 173 cm² Are flame guards or traps fitted? No Cooling medium for: Cylinders fresh water
ons - No. of attached pumps: F.W. cooling 1 set S.W. cooling - Lubricating oil 1 set How is engine started? by
compressed air.

RAFTING. Is a damper ~~by hand~~ fitted? **Yes** No. of main bearings **7** Are bearings of ball or roller type? **No** Distance between
 r edges of bearings in way of cranks **284 mm** Crankshaft: ~~Blank~~ **solid** Material of crankshaft **electric furnace steel** approved
 mum tensile strength **55 kg/mm²** Dia. of pins **155 mm** Journals **155 mm** Breadth of webs at mid throw **273 mm** Axial
 tness **80 mm** If shrunk, radial thickness around eyeholes **-** Dia. of flywheel **1250 mm.** Weight **1510 kg.** Are balance
 ghts fitted? **No** Total weight **-** Rad. of gyration **-** Dia. of flywheel shaft **-**
 each engine been tested in shop? **Yes** How long at full power? **2 Hr.** Was it tested with driven machinery attached? **Yes** Was the
 rning tested and found satisfactory? **Yes** Date of approval of torsional vibration characteristics (for engines of 150 BHP and over) **21-8-1961**
 e of approval of shafting **20-6-1961** Identification marks on shafting **LLOYD'S NAG** **LLOYD'S KOB** **LLOYD'S KOB**
S-CK4782 **MB-CK773** **MB-CK784**
 ulars of driven machinery **400 KVA generators** **SN 8-7-61** **K.K. 8-7-61** **M.K. 15-7-61**
J.W. 11-9-61 **J.W. 20-9-61**
YKA **YKA**

TURBINE/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 _____

Small diagram should be attached showing gas cycle) IP " _____ at _____ " IP " " " " " " 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? _____

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 _____ Please refer Nagasaki Surveyors
generators under 100 Kw., has Makers' Certificate been obtained? _____ Are Certificates attached? No

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

T. Kondowaki
YOKOHAMA SHIPYARD & ENGINE WORKS
MITSUBISHI NIPPON HEAVY-INDUSTRIES, LTD. *Manufacturer*

his 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. The quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.*

The machinery has been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters.

The quality of workmanship and materials has been found satisfactory and the machinery examined under full power working conditions during shop trials and found satisfactory.

It is submitted that on being satisfactorily installed in a Classed ship, the machinery is eligible to be Classed with the Society and to have the notation **✚** LMC (with date).

ey Fee ¥191,250.- 16/1/62

uses

when a/c rendered

J. WINN *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 Motor Tanker "LUGANSK"

Hiroshima, Japan

P. Manson,
W.A. Cook, J. Nonomura

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