Rpt. 4c

Date of writing report 31st May, 1963 Received London 18 JAN Port KOBE No. FE-11640

Survey held at Osaka No. of visits 8 First date 21st Jan.,1963 Last Date 30th May,1963

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship m.v. "ORSHA" *Owners* M/V Sudoimport, Moscow, U.S.S.R.
(Or Contract No. if name unknown). *(Or Consignees)*
Ship Built at Osaka, Japan *by* Hitachi Shipbuilding & Eng.Co.,Ltd., Sakurajima Shipyard *when* 11-1963 *Yard No.* 3976
Auxiliary Engines ~~xxxxxxxxxxxx~~ *at* Osaka, Japan *by* Daihatsu Kogyo K.K. *when* May,1963 *Eng. Nos.* 620100
Total No. of sets and description (including type name) 1 off 6 PS-20 Type 4 S.C. S.A. Diesel Engine

INTERNAL COMBUSTION RECIPROCATING ENGINES. *No. of cylinders per engine* 6 *Dia. of cylinders* 200 mm *Stroke* 250 mm *2 or 4 stroke cycle* 4 *Maximum approved BHP* 207.039 *at* 750 *RPM* *Corresponding MIP* 6.69 kg/cm2 *Maximum pressure* 60 kg/cm2 *Fuel* Diesel Oil *Are cylinders arranged in Vee or other special formation?* No *If so, No. of crankshafts per engine* - *Is engine of opposed piston type?* No *No. and type of mechanically driven scavenge pumps or blowers per engine* None *No. of exhaust gas driven blowers or superchargers per engine* None *Is welded construction used for: Bedplate?* No *Entablature?* No *Total internal volume of crankcase (if 20 cu. ft. or over)* 23.1 cub.ft *No. and total area of crankcase explosion relief devices* 3&0.0194M^2 (3 & 30.1 sq.in) *Are flame guards or traps fitted?* Yes *Cooling medium for: Cylinders* Fresh Water *Pistons* None *No. of attached pumps: F.W. cooling* None *S.W. cooling* None *Lubricating oil* 1 *F.O. supply* 1 *How is engine started?* By Compressed Air

SHAFTING. *Is a damper or detuner fitted?* No *No. of main bearing* 7 *Are bearing of ball or roller type?* No *Distance between inner edges of bearings in way of cranks* 217 mm *Crankshaft:* ~~Built xxxxxxx~~ solid. *Material of crankshaft* Forged Steel *Approved minimum tensile strength* 55 kg/cm2 *Dia. of pins* 135 mm *Journals* 155 mm *Breadth of webs at mid throw* 220 mm *Axial thickness* 55 mm *If shrunk, radial thickness around eyeholes* - *Dia. of flywheel* 950 mm *Weight* 555 kg *Are balance weights fitted?* Yes *Total weight* 82 kg *Rad. of gyration* 245 mm *Dia. of flywheel shaft* -
Has each engine been tested in shop? Yes *How long at full power?* 4 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)* 13-3-63
Date of approval of shafting 23-1-63 *Identification marks on shafting* No. MB-CK 982 KY 5-3-63 LR
Particulars of driven machinery 150 KVA x 400V x 50 C/S A.C. Generator

559F

20/2/64

Port and No. of Certificate for Starting Air Receivers Kobe AR-86707

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* Yokohama No.M-9220
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)

K. Deguchi
K. Deguchi *Manufacturer*
Chief Inspector, Daihatsu Kogyo K.K.

Is this machinery duplicate of a previous case? Yes *If so, which?* Hitachi S. No. 3975 m.v. "OREKHOV"

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.*

The engine has been constructed under Special Survey in accordance with the Rules, the approved plans, and the Secretary's letters. The material and workmanship are good. On completion, the engine has been examined under full working conditions at shop and found satisfactory.

Survey Fee ¥38,450.-
Expenses 3,000.-
904 *Date when a/c rendered* JUN - 3 1963

K. Yamazaki, for S. Hashiguchi & Self K. Ogata
Engineer Surveyor to Lloyd's Register
K.Yamazaki, S.Hashiguchi & K. Ogata

Declaration to be signed by Surveyor at fitting-out Port:— *The above described machinery has been fitted on board the* m.v. "ORSHA" *at* Sakurajima, Osaka *in a proper manner and found satisfactory when tested on the (date)* 5-11-63 *under full working conditions.*

L.O. Christensen
Engineer Surveyor to Lloyd's Register
L.O. Christensen

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