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Rpt. 4c

20 AUG 1964
26 FEB 1965

Date of writing report 7th August, 1964 Received London - Port of Augsburg No. 1802

Survey held at Augsburg No. of visits 11 First date 29th Nov., 63 Last date 30th July, 1964

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship m.t. - "GIUSEPPE VERDI" *Owners* - BLACKSEA STATE STEAMSHIP LINES-USSR-
(Or Contract No. if name unknown). *(Or Consignees)*

Ship Built at Genoa *by* Societa Ansaldo SpA *when* 1964 *Yard No.* 1597

Auxiliary Engines ~~Gas Turbines~~ made at Augsburg *by* M.A.N. A.G. *when* 1964 *Eng. Nos.* 303 101

Total No. of sets and description (including type name) W8V17.5/22A supercharged

INTERNAL COMBUSTION RECIPROCATING ENGINES. *No. of cylinders per engine* 8 *Dia. of cylinders* 175 mm *Stroke* 220 mm *2 or 4 stroke cycle* 4 *Maximum approved BHP* 305 *at* 750 *RPM Corresponding MIP* 10.35 kg/cm^2 *Maximum pressure* 75 kg/cm^2 *Fuel* gas 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. and type of mechanically driven scavenge pumps or blowers per engine* - *No. of exhaust gas driven blowers or superchargers per engine* one *Is welded construction used for: Bedplate?* - *Entablature?* - *Total internal volume of crankcase (if 20 cu. ft. or over)* 0.665 m^3 *No. and total area of crankcase explosion relief devices* 2; 80 cm^2 each *Are flame guards or traps fitted?* no *Cooling medium for: Cylinders* water *Pistons* - *No. of attached pumps: F.W. cooling* 1 *S.W. cooling* - *Lubricating oil* 1 *How is engine started?* by air

SHAFTING. *Is a damper or detuner fitted?* yes *No. of main bearings* 9 *Are bearings of ball or roller type?* - *Distance between inner edges of bearings in way of cranks* 250 mm *Crankshaft: ~~Built or~~ solid. Material of crankshaft* S.M.Steel,34CrMo4 *Approved minimum tensile strength* 80 kg/mm^2 *Dia. of pins* 105 mm *Journals* 105 mm *Breadth of webs at mid throw* 178 mm *Axial thickness* 42 mm *If shrunk, radial thickness around eyeholes* - *Dia. of flywheel* 800 mm *Weight* 395 kgs. *Are balance weights fitted?* yes *Total weight* 60 kgs. *Rad. of gyration* 110 mm *Dia. of flywheel shaft* -
Has each engine been tested in shop? yes *How long at full power?* 5 hrs. *Was it tested with driven machinery attached?* no *Was the governing tested and found satisfactory?* yes *Date of approval of torsional vibration characteristics (for engines of 150 BHP and over)* 17.9.1963
Date of approval of shafting 10.2.1949 *Identification marks on shafting* LLOYD'S AUG AU 37/4800 H.K.S. 1.2.64 C525003
Particulars of driven machinery -

573J ?
6/11/64

Port and No. of Certificate for Starting Air Receivers none.

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*
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)

Maschinenfabrik Augsb.-Nürnberg A.G
Manufacturer

Is this machinery duplicate of a previous case? yes *If so, which?* Yard Nos. 1593/4/5/6

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.*

This generator engine has been built under Special Survey in accordance with the Society's Rules and Regulations, the approved plans and the Secretary's letters. The materials and workmanship are good. The engine has been examined during construction, under working conditions on completion, governor trials carried out with satisfactory results and is eligible in my opinion to be installed in a ship classed with this Society.

rame 40.--
Survey Fee DM 409.50
test 100.--
Expenses 20.-- Total DM 569.50

Date when a/c rendered 14.8.1964

Engineer Surveyor to Lloyd's Register

64

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the m.t. "GIUSEPPE VERDI" - Yard No.1597.
at ANSALDO-SESTRI, GENOA *in a proper manner and found satisfactory when tested on the (date)* 23.11.1964 *under full working conditions.*

(S.DINNEN)
Engineer Surveyor to Lloyd's Register

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