29 JAN 1964

16132 THREE MAIN GNRS

t. 4c

of writing report 31.121963 Received London ..... Port TRIESTE No. .....

held at TRIESTE No. of visits 15 First date 25.9.1963 Last date 13.12.1963

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

e of Ship "FEDOR POLETAEV" Owners (Or Consignees) BLACKSEA STATE STEAMSHIP LINES, USSR.
Contract No. if name unknown).
Built at GENOA by Messrs. Ansaldo S.p.A. when ..... Yard No. 1594
liary Engines ~~or Gas Turbines~~ made at TRIESTE by Messrs. C.R.D.A. when 1963 Eng. Nos. (5807 (5808 (5809
l No. of sets and description (including type name) Three C.R.D.A. SULZER 6 BCAH 29

ERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 6 Dia. of cylinders 290mm. Stroke 360mm.
4 stroke cycle 4 Maximum approved BHP 825 at 500 RPM Corresponding MIP 12.2kg/cm² Maximum pressure 70 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 none No. of exhaust gas driven blowers or superchargers per engine one Is welded construction
for: Bedplate? no Entablature? no Total Internal volume of crankcase (if 20 cu. ft. or over) 1750 lts. No. and total area of
kcase explosion relief devices 3 - 240 cm² Are flame guards or traps fitted? no Cooling medium for: Cylinders fresh water
ons none No. of attached pumps: F.W. cooling one S.W. cooling none Lubricating oil one How is engine started? compressed air

AFTING. Is a damper or detuner fitted? no No. of main bearings 7 Are bearings of ball or roller type? no Distance between
r edges of bearings in way of cranks 320mm 334 Crankshaft: ~~Built, semi-built~~, solid. Material of crankshaft el.furnace steel Approved
imum tensile strength 56 kg/mm² Dia. of pins 185mm. Journals 200mm. Breadth of webs at mid throw 295mm Axial
kness 92mm If shrunk, radial thickness around eyeholes solid Dia. of flywheel 1500 mm Weight 1400 kgs. Are balance
ghts fitted? no Total weight - Rad. of gyration - Dia. of flywheel shaft none
s 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) 30.10.62
te of approval of shafting 30.10.62 Identification marks on shafting KLN-AS-931-20.5.63.=KLN-AS-886-11.2.63.=KLN-AS-916-16.5.63
rticulars of driven machinery 690 KVA Alternator N°s.8003801-02-03

rt and No. of Certificate for Starting Air Receivers Starting air bottle will be supplied on board.

UXILIARY GAS TURBINES. BHP per set ..... At ..... RPM of output shaft. Open or closed cycle? .....
rangement of turbines. HP drives ..... at ..... RPM HP gas inlet temp. ..... pressure .....
mall diagram should be ched showing gas cycle) IP " ..... at ..... " IP " " " ..... " .....
LP " ..... at ..... " LP " " " ..... " .....
. of air compressors per set ..... Centrifugal or axial flow type? ..... Material of turbine blades .....
aterial of compressor blades ..... No. of air coolers per set ..... No. of heat exchangers per set ..... How are
bines started? ..... Are the turbines operated in conjunction with free piston gas generators? .....
tal 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 .....
ve the turbines and attached equipment been tested in shop? ..... How long at full power? ..... Were they tested with driven machinery
ached? ..... Particulars of gearing .....
te of approval of plans ..... Identification marks ..... Particulars of driven machinery .....

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Mg 21/2/64

LECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over Our Certificate N°s.5371-5372-5373
r generators under 100 Kw., has Makers' Certificate been obtained? ..... Are Certificates attached? No. (Certificates forwarded to Genoa)

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

CANTIERI RIUNITI DELL'ADRIATICO
Fabbrica Macchine S. Andrea
..... Manufacturer

this machinery duplicate of a previous case? yes If so, which? Eng.N°s.5804/05/06 Our Rpt.N°. 16066.

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

hese auxiliary engines have been constructed with tested materials under special survey in ccordance with the Rules, approved plans and Secretary's letters. Material and workmanship re good. The engines have been tested in the shop at full load with satisfactory results. n completion of the shop trials they have been partly dismantled, the parts examined, found ood and re-assembled.

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urvey Fee Lire 574.695.-
xpenses " 15.000.-
.T. " 14.460.-
ate when a/c rendered 3.1.1964

Engineer Surveyor to Lloyd's Register

eclaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the mt "FEDOR POLETAV"
GENOVA in a proper manner and found satisfactory when tested on the (date) 20.3.64 under full working conditions.

Engineer Surveyor to Lloyd's Register

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