Rpt. 4c

Date of writing report 29th Aug.,1957 Received London ..... Port TRIESTE No. 14646

Survey held at Trieste No. of visits See Report 4A First date ..... Last date 4 OCT 1957

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship S.T. "ADRIANA AUGUSTA" *Owners* PRORA S.p.A. Palermo
(Or Contract No. if name unknown). *(Or Consignees)*

Ship Built at Trieste *by* C.R.D.Adriatico *when* 1957 *Yard No.* 1823

Auxiliary Engines ~~XXXXXXXXX~~ *made at* Trieste *by* C.R.D.Adriatico *when* 1957 *Eng. Nos.* 5681

Total No. of sets and description (including type name) One. C.R.D.A.-Sulzer 4.BH 22

INTERNAL COMBUSTION RECIPROCATING ENGINES. *No. of cylinders per engine* 4 *Dia. of cylinders* 220 mm. *Stroke* 320 mm. *2 or 4 stroke cycle* 4 *Maximum approved BHP* 150 *at* 500 *RPM* *Corresponding MIP* 6.775 kg *Maximum pressure* 60 kg/cm^2 *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)* 720 litres *No. and total area of crankcase explosion relief devices* 2 - 160sq.cm. *Are flame guards or traps fitted?* No *Cooling medium for: Cylinders* F.water *Pistons* None *No. of attached pumps: F.W. cooling* 1 *S.W. cooling* ..... *Lubricating oil* 1 *How is engine started?* Compressed air

SHAFTING. *Is a damper or detuner fitted?* No *No. of main bearings* 5 *Are bearings of ball or roller type?* No *Distance between inner edges of bearings in way of cranks* 238 mm. *Crankshaft:* ~~XXXXXXXXX~~ *solid.* *Material of crankshaft* E.F.Steel *Approved minimum tensile strength* 50 kg/mm^2 *Dia. of pins* 145 mm. *Journals* 155 mm. *Breadth of webs at mid throw* 230 mm. *Axial thickness* 64 mm. *If shrunk, radial thickness around eyeholes* ..... *Dia. of flywheel* 1500 mm. *Weight* 956 kg. *Are balance weights fitted?* No *Total weight* ..... *Rad. of gyration* PD^2 1450 kg/M^2 *Dia. of* ~~XXXX~~ dynamo *shaft* 110 mm.
Has each engine been tested in shop? Yes *How long at full power?* 6 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)* 4.9.56
Date of approval of shafting 4.9.56 *Identification marks on shafting* LLOYD's Gen. S.S. 5464
Particulars of driven machinery One. Self ventilated electric generator 100 Kwt. N°.136458

Port and No. of Certificate for Starting Air Receivers Milan Cert. N°. A.13 Air bottle N°.3-52855

~~**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* Trieste Cert.N°.3328
For generators under 100 Kw., has Makers' Certificate been obtained? Yes *Are Certificates attached?* Yes

The foregoing description is correct and the particulars are as approved for torsional vibration characteristics (strike out words not applicable)
Cantieri Riuniti Dell'Adriatico
FABBRICA LACCHI S. ANDREA
Manufacturer

Is this machinery duplicate of a previous case? Yes *If so, which?* S.T. "MARE ADRIACUM" Tri. Rpt. N°.13965

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 engine has been constructed under special survey of tested materials in accordance with approved plans and the Rule requirements.
The workmanship and materials are good.
This engine has been installed aboard the above vessel in an efficient manner and found satisfactory when tested under full load conditions.
This engine, in my opinion, is eligible for full classification.

Survey Fee Lt 39.000 less 15% = Lt 33.150
Expenses see Rpt 4a
Date when a/c rendered 27/9/57

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 "ADRIANA AUGUSTA" *at* Trieste *in a proper manner and found satisfactory when tested on the (date)* 26.7.57 *under full working conditions.*

Engineer Surveyor to Lloyd's Register

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