

Rpt. 4c

Date of writing report 10 June, 1964

Received London 23 JUN 1964

Port TRIESTE

No. 16254

Survey held at TRIESTE

No. of visits 15

First date 11.3.64

Last date 10.6.1964

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

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

Ship Built at GENOA

by Messrs. ANSALDO S.p.A.

when Yard No. 1597

Auxiliary Engines ~~XXXXXX~~ made at TRIESTE

by Messrs. C.R.D.A. - F.M.S.A.

when 1964 Eng. Nos. 5816

Total No. of sets and description (including type name) THREE CRDA-SULZER 6 BCAH 29

5817

5818

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 6 Dia. of cylinders 290 mm Stroke 360 mm
2 or 4 stroke cycle 4 Maximum approved BHP 825 at 500 RPM Corresponding MIP 12.2 kg/cm² Maximum pressure 70 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 one Is welded construction

used for: Bedplate? No Entablature? No Total Internal volume of crankcase (if 20 cu. ft. or over) 1750 lts. No. and total area of

crankcase explosion relief devices 3 - 240 cm² Are flame guards or traps fitted? No Cooling medium for: Cylinders fresh water

Pistons None No. of attached pumps: F.W. cooling one S.W. cooling None Lubricating oil one How is engine started? compressed air

SHAFTING. Is a damper or detuner fitted? No No. of main bearings 7 Are bearings of ball or roller type? No Distance between

inner edges of bearings in way of cranks 334 mm Crankshaft: ~~XXXXXX~~ solid. Material of crankshaft El. Furnace Steel Approvedminimum tensile strength 56 kg/mm² Dia. of pins 185 mm Journals 200 mm Breadth of webs at mid throw 295 mm Axial

thickness 92 mm If shrunk, radial thickness around eyeholes solid Dia. of flywheel 1500 mm Weight 1400 kgs. Are balance

weights fitted? No Total weight - Rad. of gyration - Dia. of flywheel shaft None

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) 30.10.62

Date of approval of shafting 30.10.62 Identification marks on shafting LLOYD'S KLN 888 AS 7.2.63

Particulars of driven machinery 690 KVA Alternator LLOYD'S KLN 896 AS 21.1.63

LLOYD'S KLN 894 AS 31.1.63

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

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 Our Certificate Nos. 5522-5508-5523

For generators under 100 Kw., has Makers' Certificate been obtained? - Are Certificates attached? No - (certificates forwarded to Genoa)

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 Macchine S. Andrea Manufacturer

Is this machinery duplicate of a previous case? Yes If so, which? Motors Nos. 5804 to 5815 (See our Rpt. Nos. 16066, 16132 & 16237)

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.

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

Survey Fee Lire 574.695- due
Expenses " 15.000-
R.T. " 19.460- 10.6.64.
Date when a/c rendered

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 m.t. "GIUSEPPE VERDI" Yard No. 1597.

at ANSALDO SESTRI, GENOA in a proper manner and found satisfactory when tested on the (date) 21.11.64 under full working conditions.

(S. DINNEN)

Engineer Surveyor to Lloyd's Register

012113-012116-0055

23 JUN 1964

Rpt. 4c

Date of writing report..... Received London..... Port..... No.....
Survey held at..... No. of visits..... First date..... Last date.....

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM
RECIPROCATING ENGINES

Name of Ship..... Owners.....
(Or Contract No. if name unknown)..... (Or Consignees).....
Ship Built at..... by..... when..... Yard No.....
Auxiliary turbines or engines made at..... by..... when..... Eng. Nos.....
Total No. of sets and description.....
.....
.....

STEAM TURBINES. No. of turbines per set..... BHP per set..... Steam pressure..... Steam temperature.....
Type of turbines.....
Particulars of gearing.....
RPM of turbine shaft(s)..... PCD of pinion(s)..... PCD of wheels(s)..... Material of
pinion(s)..... Material of wheel rim(s)..... Has rotor been dynamically balanced?..... Diameter of rotor
shaft at bearings..... Does the set Include a steam condenser?..... Is an emergency governor fitted?..... No. and purpose of
attached pumps..... Has the set been tested in the shop?..... If so, for how long at full
power?..... Was the governing tested and found satisfactory?..... Was the set tested with driven machinery attached?.....
Identification marks..... Particulars of driven machinery.....
.....
.....

STEAM RECIPROCATING ENGINES. BHP of each..... at..... RPM Steam pressure.....
Dia. of cylinders..... Stroke..... Dia. of crankshaft journals..... Pins..... Material of
crankshaft..... Is crankcase enclosed?..... If so, is the internal volume 20 cu. ft. or over?..... No. and total area of crankcase
explosion relief devices fitted?..... Are the bearings forced lubricated?..... No. and Purpose of attached pumps.....
..... Is a Governor Fitted?..... 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.

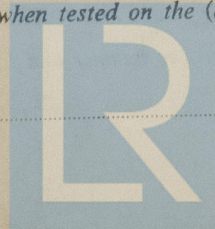
Manufacturer

Is this machinery duplicate of a previous case?..... 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.
State quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

Survey Fee.....
Expenses..... Engineer Surveyor to Lloyd's Register
Date when a/c rendered.....

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



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Foundation