

Rpt. 4c

12 SEP 1958

Date of writing report 2nd July, 1958

Received London

Port of Augsburg

No. 1123

Survey held at Augsburg

No. of visits 30

First date 11th Febr., Last date 4th June, 1958

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship - *Giovanella Varisco*
(Or Contract No. if name unknown).Owners -
(Or Consignees)

Ship Built at Venice/Italy

by Cantiere Navale Breda

when 1958

Yard No. 207

Auxiliary Engines or Gas Turbines made at Augsburg

by Maschinenfabrik Augsburg

when 1958

Eng. Nos. 401 885-7

Total No. of sets and description (including type name) 3 x GAV23.5/33

Nürnberg A.G.

INTERNAL COMBUSTION RECIPROCATING ENGINES.

No. of cylinders per engine 8

Dia. of cylinders 235 mm

Stroke 330 mm

2 or 4 stroke cycle 4

Maximum approved BHP 390

at 550

RPM

Corresponding MIP 3 kg/cm²Maximum pressure 56 kg/cm²

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

No. and type of mechanically driven scavenge pumps or blowers

per engine

No. of exhaust gas driven blowers or superchargers per engine

Is welded construction

used for: Bedplate? no

Entablature? no

Total internal volume of crankcase (if 20 cu. ft. or over) 1.792 m³

No. and total area of

crankcase explosion relief devices 4: 81cm² each

Are flame guards or traps fitted? no

Cooling medium for: Cylinders water

Pistons

No. of attached pumps: F.W. cooling

S.W. cooling

Lubricating oil 1

How is engine started? by air.

5.9 m³/h

SHAFTING.

Is a damper or detuner fitted? yes

No. of main bearings 9

Are bearings of ball or roller type? no

Distance between

inner edges of bearings in way of cranks 294 mm

Crankshaft: Built, ~~not built~~, solid.

Material of crankshaft SM-Steel, C 40

Approved

minimum tensile strength 55 kg/mm²

Dia. of pins 152 mm

Journals 152 mm

Breadth of webs at mid throw 273 mm

Axial

thickness 73.5 mm

If shrunk, radial thickness around eyeholes

Dia. of flywheel 1200 mm

Weight 1100 kgs.

Are balance

weights fitted? yes

Total weight 160 kgs.

Rad. of gyration 147 mm

Dia. of flywheel shaft

Has each engine been tested in shop? yes

How long at full power? 4 hrs.

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) 18.8.58

Date of approval of shafting 18.6.57

Identification marks on shafting

LLOYD'S AUG 3101/7429 C

5.3.58 G.H.

422.1

Particulars of driven machinery 250 KW; 230 volts; 550 RPM;

LLOYD'S AUG 3102/7906A

6.3.58 G.H.

LLOYD'S AUG 3103/9168 C

5.3.58 G.H.

Port and No. of Certificate for Starting Air Receivers 1 x 200 ltrs. Augsburg Certificate 58/412.

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

"

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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

Date of approval of plans

Identification marks

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Particulars of driven machinery

Survey Fee see yellow fee slip

Expenses 40.--

Date when a/c rendered 25.9.58

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

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

Engineer Surveyor to Lloyd's Register

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Lloyd's Register

Foundation