

Rpt. 4c

Date of writing report 18th December, 1958

Received London

Port of GENOA

No.

23864

Survey held at GENOA

No. of visits

9=

First date 10/3/58

Last date 15/12/58

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship M/V NAVALMECCANICA YARD No. 624.
(Or Contract No. if name unknown).Owners
(Or Consignees)

Ship Built at Castellammare di Stabia by S.A. NAVALMECCANICA when 1958 Yard No. 624
 Auxiliary Engines ~~Gas Turbines~~ made at ~~Genoa~~ ~~Sanpierdarena~~ by S.A. Ansaldo-Stab. Meccanico when 1958 Eng. Nos. 21313444
 Total No. of sets and description (including type name) 1-50 KW Oil Engine Generator Set - Oil Engine Type Ansaldo 2131/3

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine 3 Dia. of cylinders 215 mm. Stroke 310 mm.
 2 or 4 stroke cycle 4 Maximum approved BHP 90 at 400 RPM Corresponding MIP 6.6 Kg/cm² Maximum pressure 60 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 none Is welded construction
 used for: Bedplate? no Entablature? no Total internal volume of crankcase (if 20 cu. ft. or over) 0.390 m³ No. and total area of
 crankcase explosion relief devices 3-164.4 cm² Are flame guards or traps fitted? no Cooling medium for: Cylinders S.W.
 Pistons - No. of attached pumps: F.W. cooling - S.W. cooling one Lubricating oil one How is engine started? by
 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 268 mm. Crankshaft: ~~Bulk, semi bulk~~ solid. Material of crankshaft S.M. Steel Approved
 minimum tensile strength 50 Kg/mm² Dia. of pins 130 mm. Journals 130 mm. Breadth of webs at mid throw 225 mm. Axial
 thickness 64 mm. If shrunk, radial thickness around eyeholes - Dia. of flywheel 1130 mm. Weight 1450 Kg. Are balance
 weights fitted? yes Total weight 169 Kg. Rad. of gyration 175 mm. Dia. of flywheel shaft 130 mm.
 Has each engine been tested in shop? yes How long at full power? 3 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) ✓
 Date of approval of shafting 15/3/55 Identification marks on shafting LLOYD'S GEN.
 Particulars of driven machinery 50 KW d.c. generator. S. 5865
 230 V. - 218 A. - 400 RPM - Ansaldo San Giorgio No. 16381. W.G. 19-5-58.

Port and No. of Certificate for Starting Air Receivers Copy herewith attached. Milano A.27

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? Yes Are Certificates attached? No - Sent to Naples Office.

The foregoing description is correct and the particulars are as approved for torsional vibration characteristics (strike out words not applicable)
 ANSALDO S. A.
 STABILIMENTO MECCANICO
 Condottieri
 Manufacturer

Is this machinery duplicate of a previous case? yes If so, which? M/V "CARMELA FASSIO" See Genoa Report No. 22110.

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 oil engine has been constructed under special survey of tested materials and is in accordance
 with the approved plans, Secretary's letter and Rule Requirements. - The materials and workmanship are Good.-
 This set has been tried under working condition at full power in shop with satisfactory result.

Survey Fee Lt. 23.625 less 15% Lt. 20.081
 Expenses (see Rpt. 4 c)
 Date when a/c rendered 12/1/59

(W. Giunti).

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.V. PALLADE
 at NAPLES in a proper manner and found satisfactory when tested on the (date) 3-7-59 under full working conditions.

Engineer Surveyor to Lloyd's Register

PLEASE RETURN THIS REPORT
WITH YOUR FIRST ENTRY

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