

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9806

Survey Report 5/12/32 When handed in at Local Office 15/12/32 Port of TRIESTE
 Survey held at TRIESTE Date, First Survey 7. 11. 1930 Last Survey 30. 11. 1932
 Number of Visits 123

On the ^{Single} ~~Triple~~ Screw vessel CONTE DI SAVOIA.
 Tons { Gross 48502
 Net 25948

By whom built CANT. RIUNITI DELL'ADRIATICO Yard No. 703 When built 1932
 ITALIA. (FLOTE RIUNITI - COBOLIC LLOYD. SIA BRUDDO - NAVIGAZIONE GENERALE) Port belonging to GENOVA
 Lines made at TRIESTE By whom made CANT. RIUNITI DELL'ADRIATICO Contract No. 5188/89 When made 1932
 Motors made at TRIESTE By whom made CANT. RIUNITI DELL'ADRIATICO Contract No. ✓ When made 1932
 Sets 2 Engine Brake Horse Power 1450 EACH Nom. Horse Power as per Rule 414 EACH Total Capacity of Generators 1700 Kilowatts.

Engines, &c. Type of Engines B & W. 6 CYLIND. M.I.P. 6.35 kg/cm² 2 or 4 stroke cycle 4 Single or double acting SINGLE
 Working pressure in cylinders 35 kg/cm² Diameter of cylinders 550 mm. Length of stroke 900 mm. No. of cylinders 6. No. of cranks 6.
 Bearings, adjacent to the Crank, measured from inner edge to inner edge 430 mm. Is there a bearing between each crank YES.
 Revolutions per minute 185 Flywheel dia. 3000 mm. Weight 4060 kg. Means of ignition COMPRESSION Kind of fuel used HEAVY OIL
 Shaft, dia. of journals as per Rule 333.2 mm. HOLES 170 mm. (SEE SEC. LETTER - E. 3/1/1932) 620 mm. Mid. length breadth 620 mm. Thickness parallel to axis —
 as fitted 334 mm. Crank pin dia. 334 mm. Crank Webs Mid. length thickness 210 mm. Thickness around eye-hole —
 as per Rule 333.2 mm. Intermediate Shafts, diameter as per Rule — Thickness of cylinder liners 38/34 mm.
 as fitted 340 mm.

Is there a bearing between each crank YES.
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 Are the exhaust pipes and silencers water cooled or lagged with non-conducting material YES.
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Water Pumps, No. 2 CENT OF 120TH. Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES.
 Operating Oil Pumps, No. and size ONE GEAR WHEEL PUMP EACH MOTOR
 Compressors, No. ONE EACH MOT. No. of stages 3. Diameters (600 + 540) + (210 - 120) + 120 280 mm. Driven by M. ENGINE.
 Suctioning Air Pumps, No. NONE Diameter — Stroke — Driven by —

RECEIVERS: — Is each receiver, which can be isolated, fitted with a safety valve as per Rule YES.
 Internal surfaces of the receivers be examined YES What means are provided for cleaning their inner surfaces REMOVABLE HEAD.
 Is there a drain arrangement fitted at the lowest part of each receiver YES. FOR HP. RECEIVER & MAIN DRAIN FOR STARTING AIR-REC.
 Pressure Air Receivers, No. 4 Cubic capacity of each 2 @ 40 LIT. Internal diameter 406 mm. thickness 12.5 mm.
 Lap welded or riveted longitudinal joint SEAMLESS Material S.M.S. Range of tensile strength 41-47.5 Working pressure by Rules 71.8 kg/cm²
 Suctioning Air Receivers, No. ONE Total cubic capacity 8 M³ Internal diameter 1450/1490 mm. thickness 20.5/20 mm.
 Lap welded or riveted longitudinal joint T.A.D.S. Material S.M.S. Range of tensile strength 44-55 kg/cm² Working pressure by Rules 25.1 kg/cm²

TRIC GENERATORS: — Type COMPOUND.
 Voltage of supply 220 volts. Load 3863 Amperes. Direct or Alternating Current DIRECT.
 Operating current system, state frequency of periods per second —

Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES.
 Motors, do they comply with the requirements regarding rating YES are they compound wound YES.
 Over compounded 5 per cent. YES. if not compound wound state distance between each generator —
 Adjustable regulating resistance fitted in series with each shunt field YES. Are all terminals accessible, clearly marked, and furnished with sockets YES.
 Are the terminals so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched YES Are the lubricating arrangements of the generators as per Rule YES.
 Are approved plans forwarded herewith for Shafting 25/11/30 Receivers 26/6/30 Separate Tanks 27/2/31.

ONE GEAR ONE CYLINDER COVER & VALVE, ONE CYLINDER WITH JACKED, TOP & BOTTOM BEARINGS
 JOURNALS & CRANK PINS, 2 BEARINGS FOR PISTON GUIDES, 1 COMP. PISTON, 2 SET OF PISTON
 EXHAUST VALVES, 1 STARTING VALVE, 1 SAFETY VALVE, 1 INLET VALVE, 9 SPRINGS FOR SAFETY
 9 FUEL VALVE, ALL WORKING PART FOR ONE FUEL PUMP, 1 SET OF BOLTS FOR CRANK SHAFT COU-
 PLER COVER, CRANK PIN BEARINGS & JOURNALS BEARINGS, COMPRESSOR. 2 BEARINGS & BOLTS FOR:
 CRANK PIN, JOURNALS, PISTON GUIDES. 1 SET OF SUCTION & DELIVERY VALVE EACH STAGE. 1 SET
 OF PISTON RINGS EACH STAGE, 1 III STAGE COOLER COILS, A QUALITY OF ASSORTED NUTS & BOLTS,
 FOR INJECTION AIR, OIL FUEL WITH FLANGE & CONNECTING PIECES,

The foregoing is a correct description.

Manufacturer.

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits

please see separate list

123

Dates of Examination of principal parts—Cylinders 6.11.1930 31.1.31 Covers 6.12.1930 17.6.31 Pistons 1.4.31 16.4.31 Piston rods NONE

Connecting rods 13.9.31 to 30.10.31 Crank and Flywheel shaft 26.3.30 to 12.12.30 Intermediate shaft NONE

Crank and Flywheel shafts, Material SIEMENS MARTIN STEEL Identification Mark Nº 4250-10932/33 HK-12.12.30
Nº 4258-10986/87 HK-29.12.30

Intermediate shafts, Material _____ Identification Marks _____

Is this machinery duplicate of a previous case YES. If so, state name of vessel SATURNIA & VULCANIA.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The two ~~auxiliary~~ ^{main} Engines Nos. 5188/89 type Fourmaster and have been constructed under special survey of tested material, and are in accordance with the Secretary's letters, approved plan and Rule requirements.

The Workmanship and the material are good, each engine have been tested on Bench at the Maken Works, with satisfactory results.

The Motors have been fitted on board & re tested under full load condition and found in order in every respect.

— Position of the Motors. —

Port side Motor Nos. 5188

Starb. Side Motor Nos. 5189.

The amount of Fee ... £ 3037
 2 Quotations received 486
 Travelling Expenses (if any) £ :

When applied for,
26/11/32

When received,
15/12/32

Rev. J. Penitenti
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 23 DEC 1932

FRI. 27 JAN 1933

Assigned

See J. E. Rep.