

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12637

Writing Report Sept. 20th 1932 When handed in at Local Office Oct 4th 1932 Port of GENOA
 Survey held at TURIN Date, First Survey 2nd Feb. 1932 Last Survey 13th Sept. 1932
 on the Triple Screw vessel "OCEANIA" "Corte di Savoia" Number of Visits 12

at Monfalcone By whom built CANTIERI RIUNITI DELL'ADRIATICO Yard No. 253 When built 1932
ITALIA, (Flotte Riunite Casulich, Lloyd Sabauda, Navigazione Generale) Port belonging to Trieste

Engines made at TURIN By whom made F.I.A.T. Stabilimento Grandi Motori Contract No. 1999 When made 1932
 Generators made at ✓ By whom made ✓ Contract No. ✓ When made ✓

of Sets One Engine Brake Horse Power 150 Nom. Horse Power as per Rule 23 Total Capacity of Generators ✓ Kilowatts.

ENGINES, &c. Type of Engines F.I.A.T. V.M. 166 Solid injection 2 or 4 stroke cycle 4 Single or double acting Single
 max pressure in cylinders 35 kgs/cm² Diameter of cylinders 160 mm Length of stroke 220 mm No. of cylinders Six No. of cranks Six
 of bearings, adjacent to the Crank, measured from inner edge to inner edge 186 mm Is there a bearing between each crank Yes
 revolutions per minute 1200 Flywheel dia. 600 mm Weight 108 kgs. Means of ignition Compression Kind of fuel used Diesel Oil
See Secretary's letter
 as per Rule E. 14/12/31 Crank pin dia. 100 mm Crank Webs Mid. length breadth 160 mm Thickness parallel to axis ✓
 as fitted 100 mm Mid. length thickness 46 mm shrunk Thickness around eye-hole ✓

Wheel Shaft, diameter as per Rule ✓ Intermediate Shafts, diameter as per Rule ✓ Thickness of cylinder liners 13.5 mm
 as fitted ✓ as fitted ✓

governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced
 the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material ✓

ing Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓
 ricating Oil Pumps, No. and size One (Gear wheels)

Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 venging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
 the internal surfaces of the receivers be examined No What means are provided for cleaning their inner surfaces wire brushes
 here a drain arrangement fitted at the lowest part of each receiver Yes

h Pressure Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓
 mless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓

orting Air Receivers, No. Two Total cubic capacity 120 litres Internal diameter 250 mm thickness 6.5 mm
 mless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 48.5/48.6 kgs/cm² Working pressure by Rules 46.4 kgs/cm²

ELECTRIC GENERATORS. Type ✓

essure of supply volts. Load Amperes. Direct or Alternating Current

alternating current system, state frequency of periods per second ✓

is the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off ✓

nerators, do they comply with the requirements regarding rating ✓ are they compound wound ✓
 they over compounded 5 per cent. ✓, if not compound wound state distance between each generator ✓

an adjustable regulating resistance fitted in series with each shunt field ✓ Are all terminals accessible, clearly marked, and furnished with sockets ✓

they are spaced or shielded that they cannot be accidentally earthed, short circuited, or touched ✓ Are the lubricating arrangements of the generators as per Rule ✓

ANS. Are approved plans forwarded herewith for Shafting 14/12/31 Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)

ARE GEAR ✓

TO BE PUT ON BOARD AT TRIESTE

The foregoing is a correct description.

FIAT
 1110 GIOVANNI CHIESA
Aug. Guier

Manufacturer.

and
 11/10/32

Dates of Survey while building { During progress of work in shops - 1932, Feb. 2, 12: Mar. 12, 25, 30: Apr. 1, 8, 12, 29: July. 22: Aug. 31. Sept. 13.
 { During erection on board vessel - ...
 Total No. of visits 12.

Dates of Examination of principal parts—Cylinders 25.3.32 Covers 30.3.32 Pistons 8.4.32. Piston rods ✓

Connecting rods 14.3.32: 30.3.32 Crank and Flywheel shaft 25.3.32 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel Identification Mark 0842 25.3.32 QB.

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel "Conte di Savoia", "Neptunia",

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

This Auxiliary Engine, N^o 1999, Type V.M. 166, has been constructed under Special Survey, of tested materials and is in accordance with The Secretary's Letters, Approved plans and Rule Requirements.

The Workmanship and Materials are of a good quality and the Set when tested under load conditions on test bed at Maker's Works gave satisfactory results.

It is, in our opinion, eligible to be fitted on board a vessel, classed with this Society and is suitable for it's special purpose, namely driving an electric generator.

It is understood that the Owner's intention is to fit this engine on board the "m/s" "OCEANIA", N^o 253, now being built to the Society's Classification at the Monfalcone Yard of Messrs Cantieri Riuniti dell'Adriatico and it has been despatched to Trieste for that purpose.

The Society's Surveyors at Trieste have been advised

The amount of Fee ... £17. 900.00.

Travelling Expenses (if any) £17. 150.00.

When applied for, 4/10/32.

When received, 27.6.1933

Surveyors to Lloyd's Register of Shipping

Committee's Minute FRI. 27 JAN 1933

Assigned

LR-FAF-TB14-86