

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9806

Surveying Report 5/12/32 When handed in at Local Office 15/12/32 Port of TRIESTE Received at London Office 20 DEC 32

Survey held at TRIESTE Date, First Survey 15/9/1932 Last Survey 30/11/1932 Number of Visits 16

on the Single Screw vessel CONTE DI SAVOIA Tons Gross 48502 Net 25948

By whom built CANT. RIUNITI DELL'ADRIATICO Yard No. 783 When built 1932

Engines made at TURIN By whom made FIAT. STAB. GRANDI MOTORI Contract No. ✓ When made 1932

Engines made at TRIESTE By whom made CANT. RIUNITI DELL'ADRIATICO Contract No. ✓ When made 1932

Sets 2 Engine Brake Horse Power 150 EACH Nom. Horse Power as per Rule 23 EACH Total Capacity of Generators 200 Kilowatts.

ENGINES, &c. Type of Engines FIAT. I.M. 166 SOLID INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE

Mean pressure in cylinders 35 kg/cm² Diameter of cylinders 160 mm. Length of stroke 220 mm. No. of cylinders 6. No. of cranks 6.

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 kg. Means of ignition COMPRESSION Kind of fuel used DIESEL OIL

Crank Shaft, dia. of journals as per Rule 100 mm. as fitted 100 mm. Crank pin dia. 100 mm. Crank Webs Mid. length breadth 160 mm. Mid. length thickness 46 mm. Thickness parallel to axis Thickness around eye-hole

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

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 LAGGED WITH NON-COND.M.

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

enging 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

ere a drain arrangement fitted at the lowest part of each receiver YES

h Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

urting Air Receivers, No. TWO Total cubic capacity 120 LIT. Internal diameter 250 mm. thickness 6.5 mm.

unless, lap welded or riveted longitudinal joint SEAMLESS Material STEEL Range of tensile strength 48.5/48.6 kg/cm² Working pressure by Rules 46.4 kg/cm²

ELECTRIC GENERATORS:—Type SHUNT.

essure of supply 220/110 volts. Load 910/455 Amperes. Direct or Alternating Current DIRECT

alternating current system, state frequency of periods per second

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

generators, do they comply with the requirements regarding rating YES are they compound wound NO

they over compounded 5 per cent. if not compound wound state distance between each generator 20 ft.

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

they 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

ANS. Are approved plans forwarded herewith for Shafting 14/12/31 Receivers 13/6/32 Separate Tanks 18/6/32 -

ARE GEAR Complete as per P.I. requirements.

The foregoing is a correct description,
Cantieri Riuniti Dell'Adriatico
CANTIERE SAN MARCO

Manufacturer.

ing. B. B. B.

Dates of Survey while building { During progress of work in shops - 1932
 During erection on board vessel - Sep 15, 19, 29. Oct 1, 5, 27, 28, 30, Nov 9, 18, 20, 22, 25, 26, 28, 30
 Total No. of visits Sixteen

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 9B-25-3-32

Intermediate shafts, Material — Identification Marks —

Is this machinery duplicate of a previous case YES If so, state name of vessel NEPTUNIA

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

These engines Nos 1942 & 1999 have been constructed at Turin under special survey (See Geneva Reports dated 14/6/1932 and 13/9/1932) They have been fitted on board and coupled to 100 kw generator for emergency service, tested under working conditions and found satisfactory.

Gen N°12637 attached.

Position of the engines.
 Deck II. Starboard side Nos 1942 aft.
 " " " Nos. 1999 forward.

The amount of Fee ... £1870. When applied for, 26/11/1932
 Travelling Expenses (if any) £ When received, 15/12/1932

Sur. J. J. J. J. J.
 Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI. 23 DEC 1932

FRI. 27 JAN 1933

Assigned

See J. C. Rpt.

LR-FAF-TBJ4-84