

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS. No. A2513

Writing Report 30.6.32 When handed in at Local Office 5.7.32 Port of GENOA
 Survey held at TURIN Date, First Survey 9th October 1931 Last Survey 14th June 1932
 Number of Visits 20

on the Single Screw vessel "CONTE DI SAVOIA" Tons { Gross
 Triple Net
 Quadruple

at Trieste By whom built CANTIERI RIUNITI DELL'ADRIATICO Yard No. 783 When built 1932
 ers S.A. ITALIA. Port belonging to GENOA

Engines made at Turin By whom made FIAT Stabilimento Grandi Motori Contract No. 1971 When made 1932
 erators made at r By whom made r Contract No. r When made r
 of Sets Two Engine Brake Horse Power 150 each Nom. Horse Power as per Rule 23 each Total Capacity of Generators r Kilowatts.

ENGINES, &c.—Type of Engines FIAT V.M. 166 Solid injection 2 or 4 stroke cycle 4 Single or double acting Single
 imum pressure in cylinders 35 kgs/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
 olutions per minute 1200 Flywheel dia. 600 mm Weight 108 kgs Means of ignition Compression Kind of fuel used Diesel Oil
 ank Shaft, dia. of journals as per Rule 10/9/31 Crank pin dia. 100 mm Crank Webs Mid. length breadth 160 mm Thickness parallel to axis r
as fitted 100 mm Mid. length thickness 46 mm Thickness around eye-hole r
 wheel Shaft, diameter as per Rule r Intermediate Shafts, diameter as per Rule r Thickness of cylinder liners 13.5 mm
as fitted r as fitted r

a 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 r
 oling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel r
 rbricating Oil Pumps, No. and size One (Gear wheels)
 r Compressors, No. r No. of stages r Diameters r Stroke r Driven by r
 avenging Air Pumps, No. r Diameter r Stroke r Driven by r

R 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
 there a drain arrangement fitted at the lowest part of each receiver Yes
 gh Pressure Air Receivers, No. r Cubic capacity of each r Internal diameter r thickness r
 amless, lap welded or riveted longitudinal joint r Material r Range of tensile strength r Working pressure by Rules r
 arting Air Receivers, No. Three Total cubic capacity 180 litres Internal diameter 250 mm thickness 6.5 mm
 amless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 46.6-48.7 kgs Working pressure by Rules 44.7 kgs/cm²

ELECTRIC GENERATORS:—Type r
 Pressure of supply r volts. Load r Amperes. Direct or Alternating Current r
 If alternating current system, state frequency of periods per second r
 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off r
 Generators, do they comply with the requirements regarding rating r are they compound wound r
 are they over compounded 5 per cent. r, if not compound wound state distance between each generator r
 is an adjustable regulating resistance fitted in series with each shunt field r Are all terminals accessible, clearly marked, and furnished with sockets r
 are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched r Are the lubricating arrangements of the generators as per Rule r

PLANS. Are approved plans forwarded herewith for Shafting 10/9/31 Receivers r Separate Tanks r
 (If not, state date of approval)

PREPARE GEAR
TO BE SUPPLIED AND PLACED ON BOARD AT TRIESTE.

The foregoing is a correct description.

FIAT
 STABILIMENTO GRANDI MOTORI
 21-Durillo
 11100 GIOVANNI CHIESA

Manufacturer.

Reg. Gen. 10/9/31

Dates of Survey while building { During progress of work in shops - 1931 October 9. November 13, 24. December 1, 22. 1932 Jan. 8, 12. Feb. 2, 5, 9, 12, 16. 5
 Drafting of plans by board vessels 1/1/ March 15, 18. April 5, 12. May 20, 24. June 14
 Total No. of visits 20

Dates of Examination of principal parts—Cylinders 1/12/31, 16/2/32 Covers 8/1/32. 2/2/32 Pistons 9/2/32 Piston rods ✓

Connecting rods 22/12/31 Crank and Flywheel shaft 13/11/31 Intermediate shaft ✓

Crank and Flywheel shafts, Material STEEL Identification Mark 0767 0768 13.11.31 QB 13.11.31 QB

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case No If so, state name of vessel ✓

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

These two Auxiliary Engines, Nos 1971, 1972, Type V.M. 166, have been constructed under Special Survey of tested materials and are in accordance with the Secretary's letters, Approved plans and Rule Requirements.

The Workmanship and Materials are of a good quality and each individual set when tested under load conditions on test bed at Makers Works gave satisfactory results.

They are, in our opinion, eligible to be fitted on board a Vessel classed with this Society and are suitable for their Special Purpose, namely, driving Electric Generators.

It is understood that the Owner's Intention is to fit these Engines on board the S/S "CONTE DI SAVOIA", No 783, now being built to the Society's Classification at the Trieste yard of Messrs. Cantieri Riuniti dell'Adriatico and they have been despatched to Trieste for that purpose.

The Society's Surveyors at Trieste have been advised.

The amount of Fee ...

fr. 1800.00

When applied for,

5/1/32

Travelling Expenses (if any)

fr. 375.00

When received,

19

Committee's Minute

Assigned

John Ballandie
 Surveyor to Lloyd's Register of Shipping.