

21488

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No.

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of writing Report 23/4/ 19 56 When handed in at Local Office 2/5/ 19 56 Port of GENOA

Survey held at Genoa - Sestri Date, First Survey 24/12/55 Last Survey 5/4/ 19 56

on the Single Screw vessel YARD 45 Capo Yau Number of Visits 11

at Trieste By whom built Cantiere Navale Giuliano San Giusto Yard No. 45 When built 1955

Engines made at Sestri Ponente By whom made Nuova San Giorgio Engine No. (7803/46) When made 1955

Generators made at Monfalcone-Trieste whom made C.R.D.A. Generator No. (7915/61) When made 1955

of Sets 3 B.H.P. of each Set 125 M.N. of each Set as per Rule 25 Capacity of each Generator 80 Kilowatts

intended for essential services yes

ENGINES, &c.—Type of Engines 6 RS 19 3 or 4 strokes cycle 4 Single or double acting single

Minimum pressure in cylinders 45 kg/cm<sup>2</sup> Diameter of cylinders 190mm Length of stroke 260mm No. of cylinders 6 No. of cranks 6

Indicated pressure 6 kg/cm<sup>2</sup> Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 233 mm.

here a bearing between each crank Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) — These data have been confirmed —

Wheel dia. 900 Weight 560 kg. Means of ignition forced Kind of fuel used diesel oil

Crank Shaft, Semi built dia. of journals as per Rule as approved Crank pin dia. 110 mm. Crank Webs shrunk

Wheel Shaft, diameter as per Rule Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) —

Means provided to prevent racing of the engine governor Means of lubrication forced Kind of damper if fitted coupling

Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled

Driving Water Pumps, No. and how driven 1 mc/h 6 driven by engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size one gear type 1t./h 850

Compressors, No. — No. of stages — Diameters — Stroke — Driven by —

Exhausting Air Pumps or Blowers, No. — How driven —

AIR RECEIVERS:—Have they been made under Survey — State No. of Report or Certificate —

(other than main engines)

State full details of safety devices —

Are the internal surfaces of the receivers be examined and cleaned —

Is there a drain arrangement fitted at the lowest part of each receiver —

High 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 —

Working Air Receivers, No. 3 to be supplied at Trieste Total cubic capacity — Internal diameter — thickness —

Unless, lap welded or riveted longitudinal joint — Material — Range of tensile strength — Working pressure —

ELECTRIC GENERATORS:—Type D - 160 protected self-ventilated

Pressure of supply 220 volts. Full Load Current 364 Amperes. Direct or Alternating Current direct

Is an alternating current system, state the periodicity — Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown and off yes Generators, are they compounded as per Rule yes Is an adjustable regulating resistance fitted in series with each shunt field yes

Are all terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced —

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

Do the generators are under 100 kw. full load rating, have the makers supplied certificates of test yes and do the results comply with the requirements yes

Do the generators are 100 kw. or over have they been built and tested under survey —

State full details of driven machinery other than generator —

APPROVED PLANS.—Are approved plans forwarded herewith for Shafting 24-12-52 Receivers — Separate Tanks —

(If not, state date of approval)

Have Torsional Vibration characteristics if applicable been approved — Armature shaft Drawing No. —

(State date of approval and name of previous duplicate case, if any)

Are the spare gear required by the Rules been supplied to be supplied at Trieste.

The foregoing is a correct description,  
**NUOVA SAN GIORGIO S.p.A.**

*T. Santantonio*

Manufacturer.



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