

4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 21489

Received at London Office MAY 1956

Writing Report 23/4/1956 When handed in at Local Office 2/5/1956 Port of GENOA

Survey held at GENOA - SESTRI Date, First Survey 29/3/56 Last Survey 12/4/1956

Book. GENOA - SESTRI Number of Visits 4

on the Single YARD 45 "Cape Gera" Tons Gross -
Triple Screw vessel Net -
Quadruple

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

Engines made at Genoa-Sestri By whom made Nuova San Giorgio S.A. Engine No. 8545/197 When made 1955

Generators made at Genoa-Sestri By whom made San Giorgio S.A. Generator No. 569796 When made 1955

of Sets 1 B.H.P. of each Set 36 M.N. of each Set as per Rule 7.2 Capacity of each Generator 24 Kilowatts

intended for essential services no

ENGINES, &c. Type of Engines 3 SR 14 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 140 Length of stroke 180 No. of cylinders 3 No. of cranks 3

Indicated pressure 6 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 165 mm.

Are there a bearing between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) - Revolutions per minute 800

Wheel dia. 800 mm. Weight 300 kg. Means of ignition compression Kind of fuel used diesel oil

Shaft, Solid forged dia. of journals as per Rule Crank pin dia. 75 mm. Crank Webs Mid. length breadth 116 mm Thickness parallel to axis -
Aluminum as fitted 75 mm. Mid. length thickness 38 mm Thickness round eye hole -

Wheel Shaft, diameter as per Rule Generator armature, moment of inertia (16 m² or Kg.-cm.²) -

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

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

Driving Water Pumps, No. and how driven one driven by engine 1800 lt/h Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size 1 - 360 lt/h

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

Engining Air Pumps or Blowers, No. - How driven -

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

(other than main engines)

Are 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 -

Seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -

Medium Pressure Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -

Seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -

ELECTRIC GENERATORS: Type protected self-ventilated

Pressure of supply 220 volts. Full Load Current 109 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 -

Are there any other driven machinery other than generator air compressor No. 44563 - two stage - Dia. LP 145mm, HP 60mm, stroke 60mm.

ANS. Are approved plans forwarded herewith for Shafting 4/5/55 Receivers - Separate Tanks -

(If not, state date of approval)

Are Torsional Vibration characteristics if applicable been approved - Armature shaft Drawing No. -

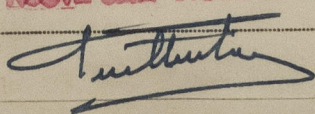
(State date of approval and name of previous duplicate case, if any)

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.

Manufacturer.




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Lloyd's Register
Foundation

004986-004445-0206

Dates of Survey while building { During progress of work in shops - - } from 29-3-56 to 12-4-56. { During erection on board vessel - - } - { Total No. of visits } 4
Dates of Examination of principal parts - Cylinders 5-4-56 Covers 5-4-56 Pistons 5-4-56 Piston rods -
Connecting rods 5-4-56 Crank and Flywheel shafts 5-4-56 Intermediate shafts -
Crank shaft { Material S.M. Steel Tensile strength 50 Kg/mm2
Elongation 25 % Identification Marks Lloyd's No. 80 GV - 5.4.56
Flywheel shaft, Material S.A. Identification Marks
Identification marks on Air Receivers

Is this machinery duplicate of a previous case yes If so, state name of vessel sister yard No. 44
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
This set has been constructed under special survey of tested materials and in accordance with approved plan, Secretary's letter and Rules requirements.
The material and workmanship are good.
This set has been tried under working condition on the bench at full power, and found satisfactory.
Afterwards same has been despatched to Trieste to be fitted on board at Messrs. Cantiere Navale Giuliano, San Giusto - Yard No. 45.

The amount of Fee ... 15000
Travelling Expenses (if any) 255
REV. TAX 1695
When applied for 2/5/56
When received 19
(G. Vigo)
Surveyor to Lloyd's Register of Shipping.
Committee's Minute
Assigned Sec Rpt. 1.
FRIDAY 23 NOV 1956

