

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 21488

Received at London Office - MAY 1956

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

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

Book. Single on the Twin Triple Quadruple Screw vessel YARD 45 *Capo Yano* Tons Gross - Net -

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) (7894/57) (7915/61) When made 1955

Generators made at Monfalcone-Trieste whom made C.R.D.A. Generator No. (133257) (133258) (133259) 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

et intended for essential services. yes

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

imum pressure in cylinders 45 kg/cm² Diameter of cylinders 190mm Length of stroke 260mm No. of cylinders 6 No. of cranks 6

n indicated pressure 6 kg/cm² 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 m² or Kg.-cm.²) These data have been confirmed by tests and in accordance with the Rules of the Register of Shipping

Revolutions per minute 500

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

ank Shaft, Solid forged dia. of journals as per Rule as approved 110 mm. Crank pin dia. 110 mm. Crank Webs Mid. length breadth 175mm Thickness parallel to axis 5mm

Mid. length thickness 50mm Thickness round eye-holes 5mm

wheel Shaft, diameter as per Rule as fitted 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

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

oling 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 -

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

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

(other than main engines) -

ate full details of safety devices -

n the internal surfaces of the receivers be examined and cleaned -

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

gh 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 -

urting 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 -

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

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

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

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

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

rsi 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

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

be Me details of driven machinery other than generator -

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

(If not, state date of approval) -

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

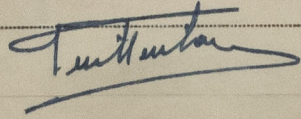
(State date of approval and name of previous duplicate case, if any) -

as 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

009486-009493-0205

Dates of Survey while building { During progress of work in shops - - } from 24-12-55 to 5-4-56
{ During erection on board vessel - - }
Total No. of visits

Dates of Examination of principal parts - Cylinder (from 16/1/56 to 26/3/56) Covers (from 16/1/56 to 26/3/56) Piston (from 16/1/56 to 26/3/56) Piston rods
Connecting rods (from 16/1/56 to 23/6/56) Crank and Flywheel shafts Intermediate shafts

Crank shaft { Material S.M. Steel Tensile strength 50 kg/mm2
Elongation as per Rules Identification Marks Lloyd's Gen. N°3 DG, 12/56
Flywheel shaft, Material - Identification Marks Lloyd's Gen. N°4 GV, 10/56
Identification marks on Air Receivers Lloyd's Gen. N°R.951 DG, 10/56
to be supplied at Trieste.

Is this machinery duplicate of a previous case yes If so, state name of vessel sister yard N° 44.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These sets have been constructed under special survey of tested materials and in accordance with the approved plan, Secretary's letter and Rules requirements.

The material and workmanship are good.

These sets have been tried under working condition on the bench at full power and found satisfactory.

Afterwards same have been despatched to Trieste to be fitted on board at Messrs. Cantiere Nava Giuliano San Giusto - Yard No. 45.

These oil engines are fitted with crankcase explosion relief devices.

(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ...

103500
82925
1760
11432
3036

When applied for

1956

When received

19

(G. Vigo)

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See Rpt. 1.

FRIDAY 23 NOV 1956



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