

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 19473

Received at London Office
When landed in at Local Office 10th 8- 1953 Port of *Genoa*
Piston at *Voghera* Date, First Survey 27th 8- 53 Last Survey 11- 8- 1953
Screw vessel *Yard C.P. 9H* Number of Visits 2
By whom built *Cantieri Navale Pellegriani* Yard No. *899H* When built 1953
Port belonging to *Voghera*
By whom made *ARONA Officine Meccaniche e Fonderie* Engine No. *7732* When made 1953
By whom made *PELLIZZARI & Figli* Generator No. *733179* When made 1953
B.H.P. of each Set 10 M.N. as per Rule ☒ Capacity of each Generator 5 Kilowatts.
Additional services *yes*

C.—Type of Engines *FR10* 2 or 4 stroke cycle *H* Single or double acting *single*
Cylinders *58 Rg. cm²* Diameter of cylinders *115 mm* Length of stroke *160 mm* No. of cylinders *1* No. of cranks *1*
Span of bearings (i.e., distance between inner edges of bearings in way of a crank) *135 mm*
Moment of inertia of flywheel (16 m² or Kg.-cm.²) *1200 added*
Revolutions per minute *1000*
Weight *88 Kg.* Means of ignition *compression* Kind of fuel used *diesel oil*
Dia. of journals *as per Rule. as approved* Crank pin dia. *60 mm* Crank Webs *Mid. length breadth 95 mm Thickness parallel to axis 143 added*
Generator armature, moment of inertia (16 m² or Kg.-cm.²) *as fitted. 149.1 - 58 mm*
Means of lubrication *forced* Kind of damper if fitted *yes*

prevent racing of the engine *governor* Are the exhaust pipes and silencers water cooled or lagged with non-conducting material *no*
No. and how driven *driven by oil engine* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *yes*
No. and size *no gear pump 1 1/2" 20*
No. of stages *yes* Diameters *yes* Stroke *yes* Driven by *yes*
Blowers, No. *yes* How driven *yes*
Have they been made under Survey *yes* State No. of Report or Certificate *yes*
Safety devices *yes*
Receivers of the receivers be examined and cleaned *yes*
Cement fitted at the lowest part of each receiver *yes*
Receivers, No. *yes* Cubic capacity of each *yes* Internal diameter *yes* thickness *yes*
riveted longitudinal joint *yes* Material *yes* Range of tensile strength *yes* Working pressure *yes*
Total cubic capacity *yes* Internal diameter *yes* thickness *yes*
riveted longitudinal joint *yes* Material *yes* Range of tensile strength *yes* Working pressure *yes*

GENERATORS:—Type *PDU 125 Protected self ventilated*
110 volts. Full Load Current *HS.5* Amperes. Direct or Alternating Current *direct current*
system, state the periodicity *yes* Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
Generators, are they compounded as per Rule *yes* is an adjustable regulating resistance fitted in series with each shunt field *yes*
possible, clearly marked, and furnished with sockets *yes* Are they so spaced
cannot be accidentally earthed, short circuited, or touched *yes* Are the lubricating arrangements of the generators as per Rule *yes*
under 100 kw. full load rating, have the makers supplied certificates of test *yes* and do the results comply with the requirements *yes*
100 kw. or over have they been built and tested under survey *yes*
Machinery other than generator *yes*
Plans forwarded herewith for Shafting *12th 8- 53* Receivers *yes* Separate Tanks *yes*
Characteristics if applicable been approved *yes* Armature shaft Drawing No. *yes*
Required by the Rules been supplied *yes*
to be supplied at Naples

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ORIGINAL FOR LLOYD'S
COPY SENT TO NAVIES

During progress of work in shops - - - 27. 2. 53
During erection on board vessel - - -
Total No. of visits 2
Dates of Examination of principal parts—Cylinders 27. 2. 53 Covers 27. 2. 53 Pistons 27. 2. 53 Piston
Connecting rods 27. 2. 53 Crank and Flywheel shafts 27. 2. 53 Intermediate shafts
Crank shaft Material S. M. Steel Tensile strength 61.2 kg/cm²
Elongation 32.5% Identification Marks 46240's
Flywheel shaft, Material soft cast iron Identification Marks
Identification marks on Air Receivers

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.)

This set have been constructed under special materials and in accordance with the approved Rule requirements.

The material and workmanship are good engine coupled to their electric generator and tested under working condition and found

3m. 6. 51. - T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minute.)

FE £1. 15.000
The amount of Fee 4m 15% £1. 12.750.
CAR RUNN ----- £1. 255.
Travelling Expenses (if any) £1. 45.10.
REV. TAX --- £1. 526.

When applied for 14/8/1953
When received 19

FRIDAY 1 OCT 1954

Committee's Minute

Assigned See Rpt. 46.

Surveyor to Lloyd's Register



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Foundation