

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No.

19472

Received at London Office

When handed in at Local Office 10<sup>th</sup> 8. 1953 Port of Penae  
at Voghiera Date, First Survey 24<sup>th</sup> 8. 1953 Last Survey 4<sup>th</sup> 8. 1953  
M.T. ROSA PELLEGRINO Number of Visits 2  
Screw vessel Yard C.P. 94 Tons Gross Net  
By whom built Cantine Rarele Pellegrino Yard No. 94 When built 1953  
Port belonging to  
By whom made ARONA off<sup>re</sup> meccaniche e Engine No. 1130-1131 When made 1953  
By whom made PELLIZZARI & figli Generator No. 133176 133177 When made 1953  
B.H.P. of each Set 24 M.N. as per Rule Capacity of each Generator 15 Kilowatts.  
Additional services Yes

Type of Engines A 24 2 or 4 stroke cycle H Single or double acting single  
Cylinders 58 1/2 Diameter of cylinders 130 mm Length of stroke 115 mm No. of cylinders 2 No. of cranks 2  
Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 160 mm  
Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)  
Revolutions per minute 800  
Weight 284 Kg Means of ignition compression Kind of fuel used Diesel oil  
Mid. length breadth 90 mm Thickness parallel to axis  
Mid. length thickness 43 mm Thickness round eyehole  
Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)  
Means of lubrication forced Kind of damper if fitted  
Are the exhaust pipes and silencers water cooled or lagged with non-conducting material  
No. and how driven 1 driven by engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel  
No. and size 1 gear pump 1/2 hp 1/2  
No. of stages 2 Diameters 1<sup>st</sup> stage 130 mm Stroke 100 mm Driven by engine  
2<sup>nd</sup> stage 54 mm  
How driven

Have they been made under Survey State No. of Report or Certificate  
Safety devices  
Receivers, No. Cubic capacity of each Internal diameter thickness  
Material Range of tensile strength Working pressure  
Total cubic capacity Internal diameter thickness  
Material Range of tensile strength Working pressure

GENERATORS: Type PDU HSO Protected self ventilated  
Volts Full Load Current 136 Amperes Direct or Alternating Current direct current  
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  
Are they so spaced  
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  
Machinery other than generator  
Approved plans forwarded herewith for Shafting 12<sup>th</sup> 4. 1953 Receivers Separate Tanks  
Armature shaft Drawing No.  
Required by the Rules been supplied  
To be supplied at Naples

The foregoing is a correct description,

OFF. MECCANICHE E FONDERIA  
FAUSTO ARONA & FIGLI

Manufacturer.



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003357-003368-0106



40. 19472.

During progress of work in shops - - 2<sup>nd</sup> f. 53  
 During erection on board vessel - - 1 ✓  
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 2<sup>nd</sup> f. 53 Covers 2<sup>nd</sup> f. 53 Pistons 2<sup>nd</sup> f. 53 Piston at  
 Connecting rods 2<sup>nd</sup> f. 53 Crank and Flywheel shafts 2<sup>nd</sup> f. 53 Intermediate shafts  
 Crank shaft { Material S.M. steel Tensile strength 85.9 81.2  
 Elongation 25% 22.9% Identification Marks 11-50's  
 Flywheel shaft, Material 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.)

These sets have been constructed under special survey materials and in accordance with the approved Rule requirements.

The material and workmanship are good. oil engines coupled to their electric generator and compressor and have been tested under working and found satisfactory.

3m, 5L, T. (MADE AND PRINTED IN ENGLAND)

FE. 61. 30,000=

The amount of Fee ... 15% £41.	25.500.	When applied for 14/8/1953
CAR FUND --- 41.	510. =	
Travelling Expenses (if any) 41.	9090. =	When received 19
REV. TAX. --- 41.	1053. =	

Committee's Minute FRIDAY 1 OCT 1954

Assigned See Rpt. 46.

Surveyor to Lloyd's Register



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