

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 5111  
MAR 1954

Received at London Office

Date of writing Report 8 - 3 - 1954 When handed in at Local Office \_\_\_\_\_ 19\_\_ Port of NAPLES

No. in Survey held at Taranto Date, First Survey \_\_\_\_\_ Last Survey 5 - 3 - 1954  
Reg. Book. \_\_\_\_\_ Number of Visits \_\_\_\_\_

on the Single Screw vessel Motor Tanker "AGOSTINO FASSIO" Tons { Gross \_\_\_\_\_ Net \_\_\_\_\_  
Triple  
Quadruple

Built at Taranto By whom built Cantiere Navale di Taranto Yard No. 143 When built 1954

Owners "FASSIO" Soc. An. Navigaz. Port belonging to \_\_\_\_\_

Oil Engines made at Milano By whom made Soc. p. Az. OM Contract No. 20000 When made 1953

Generators made at Sestri. Genoa By whom made S. E. R. A. S. Ansaldo Contract No. 585836 When made 1953

No. of Sets One Engine Brake Horse Power 100 M.N. as per Rule 25 Total Capacity of Generators 45 Kilowatts.

Is Set intended for essential services No.

OIL ENGINES, &c.—Type of Engines Please see Gen. Rpt. No. 19533 3 or 4 stroke cycle \_\_\_\_\_ Single or double acting \_\_\_\_\_

Maximum pressure in cylinders \_\_\_\_\_ Diameter of cylinders \_\_\_\_\_ Length of stroke \_\_\_\_\_ No. of cylinders \_\_\_\_\_ No. of cranks \_\_\_\_\_

Mean indicated pressure { Firing order in cylinders \_\_\_\_\_ Span of bearings, adjacent to the Crank, measured from inner edge to inner edge \_\_\_\_\_

Is there a bearing between each crank \_\_\_\_\_ Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) \_\_\_\_\_ Revolutions per minute \_\_\_\_\_

Flywheel dia. \_\_\_\_\_ Weight \_\_\_\_\_ Means of ignition \_\_\_\_\_ Kind of fuel used \_\_\_\_\_

Crank Shaft, dia. of journals { as per Rule \_\_\_\_\_ Crank pin dia. \_\_\_\_\_ Crank Webs { Mid. length breadth \_\_\_\_\_ Thickness parallel to axis \_\_\_\_\_  
as fitted \_\_\_\_\_ Mid. length thickness \_\_\_\_\_ Thickness round eyehole \_\_\_\_\_

Flywheel Shaft, diameter { as per Rule \_\_\_\_\_ Intermediate Shafts, diameter \_\_\_\_\_ General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) \_\_\_\_\_  
as fitted \_\_\_\_\_ as fitted \_\_\_\_\_

Are means provided to prevent racing of the engine when declutched \_\_\_\_\_ Means of lubrication \_\_\_\_\_ Kind of damper if fitted \_\_\_\_\_

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

Cooling Water Pumps, No. \_\_\_\_\_ Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes.

Lubricating Oil Pumps, No. and size \_\_\_\_\_ Above Diesel.

Air Compressors, No. Two No. of stages Two Diameters 220/135 Stroke 200/110 Driven by Steam Eng.

Scavenging Air Pumps, No. \_\_\_\_\_ Diameter \_\_\_\_\_ Stroke \_\_\_\_\_ Driven by \_\_\_\_\_

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

Is each receiver, which can be isolated, fitted with a safety valve as per Rule \_\_\_\_\_

Can the internal surfaces of the receivers be examined \_\_\_\_\_ What means are provided for cleaning their inner surfaces \_\_\_\_\_

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 by Rules \_\_\_\_\_

Starting Air Receivers, No. One Total cubic capacity 650 Litres Internal diameter 452 mm thickness 9 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 62.3 Kg Working pressure by Rules 7kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type Drip Proof, Ventilated

Pressure of supply 110 volts. Full Load Current 409 Amperes. Direct or Alternating Current Direct.

If alternating current system, state the periodicity \_\_\_\_\_ Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

on 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

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

If 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.

If the generators are 100 kw. or over have they been built and tested under survey \_\_\_\_\_

Details of driven machinery other than generator Two Stage Air Compressor driven through clutch.

PLANS.—Are approved plans forwarded herewith for Shafting See Gen. Rpt. Receivers \_\_\_\_\_ Separate Tanks \_\_\_\_\_

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

SPARE GEAR As per Rule Requirements.

CANTIERI NAVALI DI TARANTO S.p.A.

The foregoing is a correct description,

*[Signature]*

Manufacturer.



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011931 - 011935 - 0122

31/3/54

REPORT ON DIESEL ENGINE  
 Dates of Survey while building { During progress of work in shops - - }  
 { During erection on board vessel - - } **Various.**  
 Total No. of visits **Included in Rpt 4b.**

Dates of Examination of principal parts—Cylinders..... Covers..... Pistons..... Piston rods.....

Connecting rods..... Crank and Flywheel shafts..... Intermediate shafts.....

Crank shaft { Material..... Tensile strength.....  
 Elongation..... Identification Marks.....

Flywheel shaft, Material..... Identification Marks.....

Starting Identification marks on Air Receivers **No. 2.164906** Lloyd's Test 14 Kg/cm<sup>2</sup> W.P. 7 Kg/cm<sup>2</sup> ✓  
 G.M. 29/1/54

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.).....

After delivery on board the vessel the bedplate of this Diesel = Genr. = Compr. set has been lengthened and an extra bearing has been fitted between the flywheel and the Generator, at the same time a flexible coupling has been interposed between Diesel and Generator. The combination has been examined under working conditions at full load and found to be satisfactory. It is eligible in my opinion to be included in the LMC record.

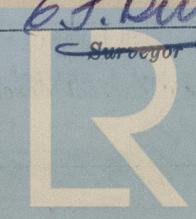
501.438-T. (MADE AND PRINTED IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... **Included in the machinery report.** ... £ : : When applied for. 19

Travelling Expenses (if any) £ : : When received. 19

Committee's Minute **FRIDAY 2 APR 1954**

Assigned **See Rpt 4b.**

*E. J. Butler*  
 Surveyor to Lloyd's Register of Shipping.  
  
 Lloyd's Register Foundation