

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 21512

Received at London Office 22 MAY 1956
GENOA

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

No. in Survey held at GENOA and LA SPEZIA Date, First Survey 10/3/55 Last Survey 10/4/1956
Reg. Book. Number of Visits 30 Gross 11249
Tons Net -

on the Single Screw vessel " GIACINTO MOTTA "
Built at La Spezia-Muggiano By whom built S.A. ANSALDO, Cantiere di Muggiano Yard No. 1504 When built 1956
Port belonging to Palermo

Owners Carbogas, Società di Navigazione S.p.A.
Oil Engines made at Genoa-Sampierdarena By whom made S.A. Ansaldo, Stabilimento Meccanico Engine No. 2654248/49/50/51 When made 1955

Generators made at Genoa-Campi By whom made ANSALDO-San Giorgio, Stabilimenti Elettromeccanici Riuniti. Generator No. 15749/50/51/60 When made 1955

No. of Sets four B.H.P. of each Set 200 M.N. of each Set as per Rule - Capacity of each Generator 125 Kilowatts
Is Set intended for essential services yes

OIL ENGINES, &c.—Type of Engines ANSALDO Q265/4 - airless injection or 4 stroke cycle 4 Single or double acting single
Maximum pressure in cylinders 55 kg/cm² Diameter of cylinders 265mm Length of stroke 410mm No. of cylinders 4 No. of cranks 4

Mean indicated pressure 6,52 Kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 348 mm
Is there a bearing between each crank yes Moment of inertia of flywheel 5330 kg.cm.sec² Revolutions per minute 360

Flywheel dia. 1400 mm Weight 1750 kg. Means of ignition compression Kind of fuel used Diesel oil

Crank Shaft, Solid forged as per Rule as approved Crank pin dia. 165mm Crank Webs 78.5mm Mid. length thickness 78.5mm Thickness parallel to axis -
Thick round eyeballs -

Flywheel Shaft, diameter 165mm as fitted as approved Generator armature, moment of inertia 452 kg.cm.sec²

Are means provided to prevent racing of the engine governor Means of lubrication forced Kind of damper if fitted flexible couplings
Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged

Cooling Water Pumps, No. and how driven one-driven by engine Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
90mm stroke, 100mm.

Lubricating Oil Pumps, No. and size One - rotary driven by engine - 2.7 m³/h capacity
Air Compressors, No. one- capacity. 14 m³/h No. of stages two Diameters 75 mm - 64 mm Stroke 60mm Driven by oil engine of 9 HP.

Scavenging Air Pumps or Blowers, No. - How driven - Copy of certificate herewith attached.

AIR RECEIVERS:—Have they been made under Survey yes State No. of Report or Certificate herewith attached.
(other than main engines) State full details of safety devices spring loaded safety valves.

Can the internal surfaces of the receivers be examined and cleaned yes
Is there a drain arrangement fitted at the lowest part of each receiver yes

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 -

Starting Air Receivers, No. four Total cubic capacity 640 litres Internal diameter 351 mm thickness 8,5 mm
Seamless, lap welded or riveted longitudinal joint seamless Material S.M. Steel Range of tensile strength ≥45 Kg/mm² Working pressure 35 Kg/cm²

ELECTRIC GENERATORS:—Type protected - self ventilated
Pressure of supply 220 volts. Full Load Current 570 Amperes. Direct or Alternating Current direct current

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 yes

Details of driven machinery other than generator -

PLANS.—Are approved plans forwarded herewith for Shafting 19/8/50 Receivers 10/6/47 Separate Tanks -
(If not, state date of approval) 25/10/55 Armature shaft Drawing No. Sc.C.2937

Have Torsional Vibration characteristics if applicable been approved yes
(State date of approval and name of previous duplicate case, if any)

Has the spare gear required by the Rules been supplied yes

ANSALDO S.A.
STABILIMENTO MECCANICO

The foregoing is a correct description, and the particulars of the installation as fitted are as approved for torsional vibration characteristics.
Manufacturer.



011461-011468-0057

Dates of Survey while building
 During progress of work in shops - - From 10/3/55 to 27/2/56
 During erection on board vessel - - From 15/2/56 to 10/4/56
 Total No. of visits 24 + 6 = 30

Dates of Examination of principal parts - Cylinders to 9/12/55 From 15/9/55 Covers to 14/11/55 From 10/3/55 Pistons to 31/10/55 From 6/6/55 Piston rods -
 Connecting rods From 6/6/55 to 31/10/55 Crank and Flywheel shafts from 13/8/55 to 6/10/55 Intermediate shafts -

Crank shaft Material S.M. Steel Tensile strength > 50 kg/mm2
 Elongation ≥ 25% Identification Marks Lloyd's Gen. S.4205 S.4209
 AG-29.9.55 AG-29.9.55
 Flywheel shaft, Material Identification Marks S.4207 S.4208
 AG-6.10.55 AG-13.10.55
 Identification marks on Air Receivers 2-283344, 2-283348, 2-283357, 2-283358
 Lloyd's Test. - Gen. 70 kg/cm2
 W.P. 35 kg/cm2
 GM - 8/7/55

Is this machinery duplicate of a previous case? yes If so, state name of vessel "GIOVANNI AGNELLI", see Genoa Rpt. N°21459.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 These sets have been constructed under special survey of tested materials and are in accordance with the approved plans, Secretary's letters and Rule Requirements.
 The materials and workmanship are good. These sets have been satisfactorily fitted on board and tried under working condition at full power with satisfactory results.

N.B.: These oil engines are fitted with explosion relief devices.

Serial No.	Particulars	Material	Pressure	Temp.	Speed	Power	Capacity	Remarks
1	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
2	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
3	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
4	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
5	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
6	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
7	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
8	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
9	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
10	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
11	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
12	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
13	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
14	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
15	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
16	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
17	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
18	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
19	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
20	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
21	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
22	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
23	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
24	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
25	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
26	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
27	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
28	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
29	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated
30	Oil engine	S.M. Steel	35 kg/cm2	8.5 mm	440 litres	270	250	protected - self ventilated

The amount of Fee £ 163.200
 Travelling Expenses (if any) £ 21.216
 REV. TAX £ 5631
 When applied for 10/3/56
 When received 10/3/56
 (A. Grasselli & G. Vigo)

Committee's Minute FRIDAY 15 JUNE 1956
 Assigned See Rpt. 46
 Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation

4m.62. - (MADE AND PRINTED IN ENGLAND)
 (The Surveys are requested not to write on or below the space for Committee Minutes.)