

ORIGINAL FOR LONDON
(COPY ALSO SENT TO NAME)

GENOA R/I. N° 19518 X

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No.

Received at London Office. 29 NOV 1953

Date of writing Report. 26-9-1953 When handed in at Local Office. 28-9-1953 Port of. ANCONA (GENOA)

No. in Survey held at. ANCONA Date, First Survey. 8-10-52 Last Survey. 24-9-1953
Reg. Book. Number of Visits. 22

on the ^{Single} ~~Twin~~ ^{Triple} ~~Quadruple~~ Screw vessel. "CONCA D'ORO" Tons { Gross. Net.

Built at. PALERMO By whom built. CANTIERI NAVALI RIUNITI, PALERMO Yard No. 203 When built.

Owners. Port belonging to.

Oil Engines made at. ANCONA By whom made. CANTIERI NAVALI RIUNITI, ANCONA Contract No. When made. 1953

Generators made at. MONFALCONE By whom made. CANTIERI RIUNITI DEL ADRIATICO Contract No. 02860 When made. 1953

No. of Sets. ONE Engine Brake Horse Power. 120 M.N. as per Rule. 24 Total Capacity of Generators. 80 Kilowatts.

Is Set intended for essential services. NO

OIL ENGINES, &c.—Type of Engines. DIESEL TYPE T.4 SERIAL N° 39770.2 AIRLESS INJECTION 2 or 4 stroke cycle. 4 Single or double acting. SINGLE

Maximum pressure in cylinders. 5.6 Kg/cm² Diameter of cylinders. 200 mm Length of stroke. 270 mm No. of cylinders. 4 No. of cranks. 4

Mean indicated pressure. 5.6 Kg/cm² Firing order in cylinders. 1-2-4-3. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge. 225 mm

Is there a bearing between each crank. YES Moment of inertia of flywheel (16 m² or Kg.-cm.²) 350 Kg/cm² Revolutions per minute. 600

Flywheel dia. 900 mm Weight. 640 Kgs Means of ignition. COMPRESSION Kind of fuel used. DIESEL OIL

Crank Shaft, dia. of journals as per Rule. AS APPROVED as fitted. 125 mm Crank pin dia. 125 mm Crank Webs Mid. length breadth. 175 mm Thickness parallel to axis. shrunk Mid. length thickness. 60 mm Thickness round eyehole.

Flywheel Shaft, diameter as per Rule. as fitted. Intermediate Shafts, diameter as per Rule. as fitted. General armature, moment of inertia (16 m² or Kg.-cm.²)

Are means provided to prevent racing of the engine when disengaged. GOVERNOR Means of lubrication. FORCED Kind of damper if fitted.

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. 1 CENT. PUMP 5 M³/HOUR Is the sea suction provided with an efficient strainer which can be cleared within the vessel.

Lubricating Oil Pumps, No. and size. 1 @ 2.2 M³/HOUR PRESS 30 Kg/cm²

Air Compressors, No. 1 OF 4 H.P. 15 M³ CAPACITY No. of stages. 2 Diameters. Stroke. Driven by. DIESEL 1-4.2 HP. 4 STROKE

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

AIR RECEIVERS: Have they been made under Survey. YES State No. of Report or Certificate. 90/4-A

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

Can the internal surfaces of the receivers be examined. YES What means are provided for cleaning their inner surfaces. WIRE BRUSHES

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 by Rules.

Starting Air Receivers, No. ONE Total cubic capacity. 150 LITRES Internal diameter. 351 mm thickness. 8.5 mm

Seamless, lap welded or riveted longitudinal joint. SEAMLESS Material. STEEL Range of tensile strength. 61.0 Kg/mm Working pressure by Rules. 5.0 Kg/cm²

ELECTRIC GENERATORS:—Type. PROTECTED VENTILATED

Pressure of supply. 450 volts. Full Load Current. 128 Amperes. Direct or Alternating Current. ALTERNATING

If alternating current system, state the periodicity. 60 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. is an adjustable regulating resistance fitted in series with each shunt field.

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.

PLANS.—Are approved plans forwarded herewith for Shafting. CRANKSHAFT APP. 25-6-52 Receivers. 10-6-47 Separate Tanks.

Have Torsional Vibration characteristics if applicable been approved. 17-4-53 Armature shaft Drawing No.

SPARE GEAR AS PER RULE REQUIREMENTS

The foregoing is a correct description,

CANTIERI NAVALI RIUNITI
CANTIERI E STABILIMENTO MECCANICI IN ANCONA

Manufacturer.



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Lloyd's Register
Foundation

010284-010293-0362

4c 19618.

Dates of Survey while building { During progress of work in shops - - } FROM 8-10-52 To 24-9-53
{ During erection on board vessel - - } ✓
Total No. of visits 22

Dates of Examination of principal parts—Cylinders 8, 9, 10/7/53 Covers 11-7-53 Pistons 21-7-53 Piston rods ✓

Connecting rods 21-7-53 Crank and Flywheel shafts 21-7-53 Intermediate shafts ✓

Crank shaft { Material ELECTRIC FURNACE STEEL Tensile strength 52.1 Kgs/mm²
Elongation ON 4 DIAS = 31.7% Identification Marks Lloyd's N^o 7 R.M.W. ANCONA 21-7-53

Flywheel shaft, Material ✓ Identification Marks ✓

Identification marks on Air Receivers Lloyd's TEST 2-20188 T.P. 100 Kg/cm² W.P. 50 Kg/cm² G.M. DALMINE 23-1-53

Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This oil engine has been built under survey of tested materials and in accordance with the approved plans, Secretary's letter and Rule Requirements.

The materials and workmanship are good. On completion of this engine it was coupled to its generator and tried under working conditions on the bench with satisfactory results.

TRIPLE CLASS
L.R. A.B. & RINA

5m. 1.48.—T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minutes.)

F.E. 1/1. 34500=
The amount of Fee 4m. 1/1. 29.325.= When applied for 5/11/ 1953
CAR FUND - - - - 4/1 880.=
Travelling Expenses (if any) 4/1 3.520.= When received 19
REV. TAX - - - - 4/1 1.012.=

Committee's Minute FRIDAY 17 SEP 1954

Assigned See Rpt. 4.

Surveyor to Lloyd's Register of Shipping.
Lloyd's Register Foundation