

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 13395

22 MAY 1934

Received at London Office

pt. 4c.

Date of writing Report 4-4-34 19 When handed in at Local Office 18-5-34 19 Port of Genoa

No. in Survey held at Turin Date, First Survey 30/1/31 Last Survey 6/3/1934

on the ~~Triple~~ ^{Single} Screw vessel Number of Visits Twelve

built at Palermo By whom built Cantieri Navali Riuniti Yard No. III When built

Port belonging to

Oil Engines made at Turin By whom made FIAT Stabilimento Grandi Motori Contract No. 2137 When made 1934

Generators made at By whom made Contract No. When made

No. of Sets One Engine Brake Horse Power 30 Nom. Horse Power as per Rule 6 Total Capacity of Generators Kilowatts.

TYPE OF ENGINES, &c.—Type of Engines FIAT V.123 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 40 kgs/cm² Diameter of cylinders 120 mm Length of stroke 230 mm No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 143 mm Is there a bearing between each crank Yes

Revolutions per minute 800 Flywheel dia. 750 mm Weight 250 kgs. Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 70.6 mm as fitted 80 mm Crank pin dia. 80 mm Crank Webs Mid. length breadth 135 mm Thickness parallel to axis

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 10 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced

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

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

Lubricating Oil Pumps, No. and size One Gear wheel

Air Compressors, No. No. of stages Diameters Stroke Driven by

Saving Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS: 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. Total cubic capacity Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS: Type

Pressure of supply volts. Load Amperes. Direct or Alternating Current

Is an alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Generators, do they comply with the requirements regarding rating are they compound wound

Do they over compounded 5 per cent. if not compound wound state distance between each generator

Is an adjustable regulating resistance fitted in series with each shunt field Are all terminals accessible, clearly marked, and furnished with sockets

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

ANS. Are approved plans forwarded herewith for Shafting 30/7/29 Receivers Separate Tanks

ARE GEAR TO BE PLACED ON BOARD AT PALERMO

23/5/34

FIAT STABILIMENTO GRANDI MOTORI Il Direttore ING. GIOVANNI CHIESA Manufacturer.



003487-003494-0072

Dates of Survey while building { During progress of work in shops - 1931 Jan. 30: Feb. 6, 10, 20: Apr. 22: May 8, 12, 19, 29: Sept. 11, 15. 1934 Mar. 6.
 { During erection on board vessel - - -
 Total No. of visits 12.

Dates of Examination of principal parts—Cylinders 8/5/31 Covers 29/5/31 Pistons 12/5/31 Piston rods ✓

Connecting rods 19/5/31 Crank and Flywheel shaft 29/5/31 Intermediate shaft ✓

Crank and Flywheel shafts, Material Steel Identification Mark 0461 G.B. 29/5/31

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel "TRANSOIL"

General Remarks (State quality of workmanship, opinions as to class, &c.)

This Auxiliary Engine, No 2137, Type Y.123, has been constructed under Special Survey, of tested materials and is in accordance with the Secretary's Letters, Approved plans and Rule requirements.

The Materials and Workmanship are of good quality and the Motor when tested under load conditions on the Test Bed at the Maker's Works gave satisfactory results.

It is, in our opinion, eligible to be fitted on board a vessel classed with this Society and is suitable for its special purpose, namely, driving an electric generator and a small auxiliary compressor.

It is understood that it is the Owner's intention to fit this engine on board an unclassed vessel m/y Ill. now being built by the Cantieri Navali Riuniti at Palermo

Im. 928 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £
 Travelling Expenses (if any) :
 When applied for, ✓ 19
 When received, 19

SEE MAIN ENGINE REPORT ATTACHED

B. A. Griffith & G. de C. Ballardie
 Surveyors to Lloyd's Register of Shipping.

Committee's Minute

TUE. 29 JAN 1935

Assigned See other Rpt | See Gm. J.C. 13728
 Gm. 13395



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