

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16926

(LEGHORN N° 4306)

Date of writing Report 19/9/48 19 48 When handed in at Local Office 18.11. 19 48 Port of GENOA Received at London Office.

No. in Survey held at GENOA & LEGHORN Date, First Survey 13/10/47 Last Survey 15/8/48 19 48

Reg. Book. ☒ on the Single Twin Triple Quadruple Screw vessel TRAWLER "SANTA MAFALDA" Number of Visits 14 Tons Gross 1272 Net 700

Built at LEGHORN By whom built ODERO-TERNI-ORLANDO Yard No. 221 When built 1948

Owners EMPRESA DE PESCA DE AVEIRO Port belonging to AVEIRO.

Oil Engines made at GENOA-SAMPIERDARENA By whom made S.A. ANSALDO-STABIL. MECCANICO Contract No. 1503329 When made 1948

Generators made at GENOA-CORNIGLIANO By whom made S.A. ANSALDO-STABIL. ELETTROTEC. Contract No. 13526 When made 1948

No. of Sets ONE Engine Brake Horse Power 46 M.N. as per Rule 11.5 Total Capacity of Generators 24 Kilowatts.

Is Set intended for essential services YES

OIL ENGINES, &c.—Type of Engines ANSALDO Q150/3-AIRLESS INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 58 Kg/cm² Diameter of cylinders 150 mm Length of stroke 200 mm No. of cylinders 3 No. of cranks 3

Mean indicated pressure 6.4 Kg/cm² Firing order in cylinders 1-3-2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 143 mm

Is there a bearing between each crank YES Moment of inertia of flywheel (16 m² or Kg.-cm.²) ✓ Revolutions per minute 650

Flywheel dia. 900 mm Weight 455 Kg. Means of ignition COMPRESSION Kind of fuel used DIESEL OIL

Crank Shaft, dia. of journals as per Rule 110 mm Crank pin dia. 98 mm Crank Webs 180 mm Mid. length breadth 36 mm Thickness parallel to axis ✓

Flywheel Shaft, diameter as per Rule 110 mm Intermediate Shafts, diameter as per Rule 110 mm General armature, moment of inertia (16 m² or Kg.-cm.²) ✓

Are means provided to prevent racing of the engine when declutched GOVERNOR Means of lubrication FORCED Kind of damper if fitted FLEXIBLE COUPLING

Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material LAGGED

Cooling Water Pumps, No. ONE: 63 mm stroke 27 mm Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

Lubricating Oil Pumps, No. and size ONE GEAR TYPE: 2 m³/h.

Air Compressors, No. ONE No. of stages TWO Diameters HP-45 mm LP-100 mm Stroke 75 mm Driven by ENGINE THROUGH A CLUTCH.

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

AIR RECEIVERS:—Have they been made under Survey YES State No. of Report or Certificate HEREWITH ATTACHED.

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 160 lit. Internal diameter 351 mm thickness 8.5 mm

Seamless, lap welded or riveted longitudinal joint SEAMLESS Material STEEL Range of tensile strength 55 Kg/cm² Working pressure by Rules 35 Kg/cm²

ELECTRIC GENERATORS:—Type PROTECTED-SELF VENTILATED.

Pressure of supply 220 volts. Full Load Current 109 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 is shunt wound. See Secretary's letter are they compounded as per Rule 17.2.48 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 AIR COMPRESSOR THROUGH A CLUTCH.

PLANS.—Are approved plans forwarded herewith for Shafting 5/3/47 as for ANSALDO Receivers 10/6/47 Separate Tanks ✓

(If not, state date of approval) YARD N° 877

Have Torsional Vibration characteristics if applicable been approved ✓ (state date of approval) Armature shaft Drawing No. ✓

SPARE GEAR AS PER RULES.

The foregoing is a correct description,

ANSALDO S. A.
STABILIMENTO MECCANICO

Manufacturer.

Vice Direttore



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Lloyd's Register
Foundation

004799-004809-0089

Dates of Survey while building { During progress of work in shops - - } FROM 13/10/47 To 28/4/48
During erection on board vessel - - } FROM 19/5/48 To 15/8/48
Total No. of visits 14

Dates of Examination of principal parts—Cylinders 13/10/47 ÷ 20/10/47 Covers 16/10/47 Pistons 15/10/47 Piston rods ✓

Connecting rods 16/2/48 Crank and Flywheel shafts 25/3/48 Intermediate shafts ✓

Crank shaft { Material NICKEL STEEL Tensile strength 90 Kg/mm²
Elongation ≥ 16 % Identification Marks LLOYD'S 215 AG 25/3/48

Flywheel shaft, Material ✓ Identification Marks ✓

Identification marks on Air Receivers 1-90024
LLOYD'S TEST
90 Kg/cm²
W.P. 35 Kg/cm²
G.M. 9-1-48

Is this machinery duplicate of a previous case YES If so, state name of vessel "VERNA CLAUSEN" (SEE GENOA REP. N°16446)

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) THIS SET HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE'S REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE GOOD. THE SET HAS BEEN SATISFACTORILY FITTED ON BOARDS AND AFTERWARDS TRIED UNDER WORKING CONDITION WITH SATISFACTORY RESULTS.

100,46.-T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minute.)
FEE & EXPS. ALREADY
The amount of Fee CHARGED BY GENOA OFFICE (Re Genoa A/c N° 2121 dated 3/6/48).
Travelling Expenses (if any) £ : : When applied for 19
When received 19
Committee's Minute
Assigned
FRI. 7 JAN 1949
Surveyor to Lloyd's Register of Shipping.
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