

19 NOV 1953

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 19628

Writing Report 15/10/53 When handed in at Local Office 24/10/53 Port of GENOA  
Survey held at GENOA and LA SPEZIA Date, First Survey 16-2-53 Last Survey 9-10-53  
Screw vessel "FRANCESCO BIBOLINI"  
By whom built SA. ANSALDO - CANTIERE di MUGGIANO Yard No. 1484 When built 1953  
C.I.A. di NAVIGAZIONE BIBOLINI S.p.A. Port belonging to GENOA  
Engines made at GENOA - SAMPIERDARENA By whom made SA. ANSALDO - STABILIM. MECCANICO Engine No. 1503394 When made 1953  
Motors made at GENOA - CORNICIANO By whom made SA. ANSALDO - SAN GIORGIO - STABIL. ELETROMECCANICI. Generator No. 14308 When made 1953  
Sets ONE B.H.P. of each Set 46 M.N. as per Rule 11.5 Capacity of each Generator 25 Kilowatts.  
intended for essential services EMERGENCY.

ENGINES, &c. Type of Engines ANSALDO Q150/3 - AIRLESS INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE  
Mean pressure in cylinders 58 Kg/cm<sup>2</sup> Diameter of cylinders 150 mm Length of stroke 200 mm No. of cylinders 3 No. of cranks 3  
Indicated pressure 6.4 Kg/cm<sup>2</sup> Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 170 mm  
Revolutions per minute 650  
Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)  
Weight 455 Kg. Means of ignition COMPRESSION Kind of fuel used DIESEL OIL  
Shaft, Solid forged dia. of journals 98 mm Crank pin dia. 98 mm Crank Webs Mid. length breadth 180 mm Thickness parallel to axis  
Mid. length thickness 36 mm Thickness round eye hole  
Steel Shaft, diameter 110 mm Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)  
Means provided to prevent racing of the engine GOVERNOR Means of lubrication FORCED Kind of damper if fitted HARDY TYPE  
Cylinders fitted with safety valves NO Are the exhaust pipes and silencers water cooled or lagged with non-conducting material LAGGED  
Water Pumps, No. and how driven ONE - ROTARY Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES  
Lubricating Oil Pumps, No. and size ONE - GEAR TYPE : 2 m<sup>3</sup>/h.  
Compressors, No. ONE No. of stages TWO Diameters 75 - 64 mm Stroke 60 mm Driven by Oil engine of 9 BHP  
Sucking Air Pumps or Blowers, No. How driven

RECEIVERS:—Have they been made under Survey YES State No. of Report or Certificate Copy of certificate herewith attached.  
Other than main engines  
Full details of safety devices SPRING LOADED SAFETY VALVE  
Internal surfaces of the receivers be examined and cleaned YES  
Drain arrangement fitted at the lowest part of each receiver YES  
Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness  
Material Range of tensile strength Working pressure  
Sucking Air Receivers, No. ONE Total cubic capacity 50 litres Internal diameter 253 mm thickness 7 mm  
Material S.H. STEEL Range of tensile strength 45/55 Kg/mm<sup>2</sup> Working pressure 30 Kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type PROTECTED - SELF VENTILATED  
Voltage of supply 110 volts Full Load Current 287 Amperes Direct or Alternating Current DIRECT CURRENT  
Alternating current system, state the periodicity YES Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown off YES  
Generators, are they compounded as per Rule YES is an adjustable regulating resistance fitted in series with each shunt field YES  
All terminals accessible, clearly marked, and furnished with sockets YES Are they so spaced  
Welded that they cannot be accidentally earthed, short circuited, or touched YES Are the lubricating arrangements of the generators as per Rule YES  
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  
Generators are 100 kw. or over have they been built and tested under survey YES  
Is of driven machinery other than generator YES

NS.—Are approved plans forwarded herewith for Shafting 5-3-47 Receivers 7-7-52 Separate Tanks YES  
(If not, state date of approval)  
Torsional Vibration characteristics if applicable been approved YES Armature shaft Drawing No. YES  
(State date of approval and name of previous duplicate case, if any)  
The spare gear required by the Rules been supplied YES.

ANSALDO S. A.  
The factory of STABILIM. MECCANICO, MUGGIANO

Manufacturer.



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During progress of work in shops - - From 16-2-53 To 2-4-53  
Dates of Survey while building During erection on board vessel - - From 10-6-53 To 9-10-53  
Total No. of visits 9

Dates of Examination of principal parts—Cylinders 16-2-53 Covers 2-3-53 Pistons 2-3-53 Piston rods ✓  
Connecting rods 5-3-53 Crank and Flywheel shafts 5-3-53 Intermediate shafts ✓

Crank shaft Material NICKEL STEEL Tensile strength  $\geq 80 \text{ Kg/mm}^2$   
Elongation  $> 16\%$  Identification Marks LLOYD'S TEST 389 A.G. 5-3-53

Flywheel shaft, Material ✓ Identification Marks ✓

Identification marks on Air Receivers 2-60879  
LLOYD'S TEST  
60 Kg/cm<sup>2</sup>  
W.P. 30 Kg/cm<sup>2</sup>  
G.M. 24-10-52

Is this machinery duplicate of a previous case YES If so, state name of vessel "IGNAZIO BISOLINI" - SEE GENOA REP. N° 19032

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 APPROVED PLANS, SECRETARY'S LETTERS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE GOOD. THE SET HAS BEEN TRIED UNDER WORKING CONDITION ON THE BENCH AND FOUND SATISFACTORY. AFTERWARDS IT HAS BEEN SATISFACTORILY FITTED ON BOARD AND EXAMINED UNDER WORKING CONDITION WITH SATISFACTORY RESULTS.

3m. 4. 21. - T. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... F.E. 15.000.-  
CAR FUND ... 300.-  
Travelling Expenses (if any) 2000.-  
REV. TAX ... 519.-

When applied for 12/6/ 1953  
When received 24/10/ 1953

FRIDAY - 4 DEC 1953

Committee's Minute

Assigned

See minute on hull p. 7th

Surveyors to Lloyd's Register of Shipping.

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