

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

19 NOV 1953

No.

19628

Writing Report 16/10/53 When handed in at Local Office 21/10/53 Port of GENOA Received at London Office

Survey held at GENOA & LA SPEZIA Date, First Survey 23-2-53 Last Survey 9-10-53 19

on the Single Screw vessel "FRANCESCO BIBOLINI" Number of Visits 14

at MUGLIANO - LA SPEZIA By whom built S.A. ANSALDO - CANTIERE DI MUGLIANO Yard No. 1484 When built 1953

Engines made at GENOA - SAMPIERDARENA By whom made S.A. ANSALDO - STABILIMENTO MECCANICO Engine No. 2656130 When made 1953

Generators made at GENOA - CORNICIANO By whom made S.A. ANSALDO - SAN GIORGIO - STABIL. ELETTROTECNICO Generator No. 15332 When made 1953

Sets TWO B.H.P. of each Set 300 each M.N. as per Rule 45 each Capacity of each Generator 300 Kilowatts.

intended for essential services YES

ENGINES, &c. Type of Engines ANSALDO Q265/6 - AIRLESS INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE

num pressure in cylinders 58 Kg/cm<sup>2</sup> Diameter of cylinders 265 mm Length of stroke 410 mm No. of cylinders 6 No. of cranks 6

indicated pressure 6.6 Kg/cm<sup>2</sup> Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 350 mm

re a bearing between each crank YES Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm<sup>2</sup>) 3350 Kg.-cm<sup>2</sup> Revolutions per minute 375

eel dia. 1400 mm Weight 1135 Kg. Means of ignition COMPRESSION Kind of fuel used DIESEL OIL

Shaft, Solid forged as per Rule as approved Mid. length breadth 370 mm Thickness parallel to axis shrunk

dia. of journals as fitted 165 mm Crank pin dia. 165 mm Crank Webs Mid. length thickness 78.5 mm Thickness round eye hole shrunk

eel Shaft, diameter as per Rule 165 mm Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm<sup>2</sup>) 1165 Kg.-cm<sup>2</sup>

Means provided to prevent racing of the engine GOVERNOR Means of lubrication FORCED Kind of damper if fitted YES

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

ing Water Pumps, No. and how driven ONE - Stroke 100 mm Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES

ing Oil Pumps, No. and size ONE - GEAR TYPE : 3820 lts/h.

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

ing Air Pumps or Blowers, No. YES How driven YES

RECEIVERS:—Have they been made under Survey YES State No. of Report or Certificate Copy of Certificate hereon attached

full details of safety devices SPRING LOADED SAFETY VALVE

The internal surfaces of the receivers be examined and cleaned YES

Are a drain arrangement fitted at the lowest part of each receiver YES

Pressure Air Receivers, No. YES Cubic capacity of each YES Internal diameter YES thickness YES

ess, lap welded or riveted longitudinal joint YES Material YES Range of tensile strength YES Working pressure YES

ing Air Receivers, No. TWO Total cubic capacity 320 litres Internal diameter 351 mm thickness 8.5 mm

ess, lap welded or riveted longitudinal joint SEAMLESS Material S.M. STEEL Range of tensile strength 45/55 Kg/mm<sup>2</sup> Working pressure 35 Kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type PROTECTED - SELF VENTILATED

ure of supply 220 volts. Full Load Current 910 Amperes. Direct or Alternating Current DIRECT

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

elded 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 10-6-47 Separate Tanks YES

Torsional Vibration characteristics if applicable been approved 1-4-53 Armature shaft Drawing No. S.C. 2479

(State date of approval and name of previous duplicate case, if any)

Are 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 are as approved for torsional vibration characteristics.

Manufacturer.

011678-011692-0202

Lloyd's Register  
Foundation



84291  
During progress of work in shops - - FROM 23-2-53 To 25-5-53  
10-6-53 to 9-10-53  
Dates of Survey while building During erection on board vessel - - FROM 10-6-53 To 9-10-53  
Total No. of visits. 14

Dates of Examination of principal parts—Cylinders 23-2-53 to 9-4-53 Covers 26-3-53 to 2-4-53 Pistons 20-4-53 Piston rods ✓  
Connecting rods 20-4-53 Crank and Flywheel shafts 26-3-53 x 2-4-53 Intermediate shafts ✓

Crank shaft Material S.M. STEEL Tensile strength  $\geq 50 \text{ Kg/mm}^2$   
Elongation  $\geq 25\%$  Identification Marks LLOYDS R. 260 A.G. 15-12-52 LLOYDS R. 271 A.G. 15-12-52

Flywheel shaft, Material ✓ Identification Marks ✓

Identification marks on Air Receivers 2-80320, 2-80316  
LLOYDS TEST  
W.P. 35 Kg/cm<sup>2</sup>  
G.M. 16-1-53

Is this machinery duplicate of a previous case YES If so, state name of vessel "TARIFA" - See GENOA REPORT N° 16912.

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 APPROPRIATE PLANS, SECRETARY'S LETTERS AND RULE REQUIREMENTS. THE TORSIONAL VIBRATION CHARACTERISTICS OF THE COMPLETE DYNAMIC SYSTEM HAVE BEEN APPROVED FOR A SERVICE SPEED OF 375 R.p.m. THE MATERIALS AND WORKMANSHIP ARE GOOD.  
THE SETS HAVE BEEN SATISFACTORILY FITTED ON BOARD AND AFTERWARDS TRIED UNDER WORKING CONDITION WITH SATISFACTORY RESULTS.

32  
24.11.53  
The amount of Fee ... 132,000.-  
C.A.R. FUND ... 2,640.-  
Travelling Expenses (if any) 17,260.-  
REV. TAX ... 4,557.-

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

FRIDAY - 4 DEC 1953

Committee's Minute

Assigned

See minute on hull for r.p.

Shayler & Hulse  
Surveyors to Lloyd's Register of Shipping.

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