

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 5084

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Date of writing Report 19 When handed in at Local Office 19 Port of NAPLES

No. in Survey held at CASTELLAMMARE Date, First Survey Last Survey 19 53

Reg. Book. Number of Visits

on the Single Twin Triple Quadruple Screw vessel M.V. "SHAKTI" Tons { Gross 2788 Net 1445

Built at CASTELLAMMARE DI STABIA By whom built NAVALMECANICA CANTIERE NAVALE Yard No. 590 When built 1949

Owners THE GOVERNMENT OF INDIA Port belonging to

Oil Engines made at LEGNANO By whom made FRANCO TOSSI Contract No. When made

Generators made at TRIESTE By whom made C.R.D.A. Contract No. When made

No. of Sets 3 Engine Brake Horse Power 2240 M.N. as per Rule Total Capacity of Generators 108 Kilowatts.

Is Set intended for essential services YES (1240 BHP. EMERGENCY)

OIL ENGINES, &c.—Type of Engines One TOSI QI 4 CH. Two QI 2 CH. 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 60 Kg/cm² Diameter of cylinders 180 mm Length of stroke 320 mm No. of cylinders 222 No. of cranks 222

Mean indicated pressure 35.2 Kg/cm² Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 214 mm

Is there a bearing between each crank YES Moment of inertia of flywheel (16 m² or Kg.-cm.²) 12500 Revolutions per minute 2240

Flywheel dia. Weight Means of ignition COMPRESSION Kind of fuel used DIESEL

Crank Shaft, dia. of journals 115 mm as fitted Crank pin dia. 115 mm Crank Webs Mid. length breadth Thickness parallel to axis shrunk Mid. length thickness Thickness round eyehole

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

Are means provided to prevent racing of the engine when declutched 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. SEE RPT 4B Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES

Lubricating Oil Pumps, No. and size SEE RPT 4B Attached gear pumps

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

Scavenging Air Pumps, No. Diameter Stroke Driven by

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

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

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. 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 COMPOUND. ENCLOSED VENTILATED. DRIP PROOF

Pressure of supply 110 volts. Full Load Current 765 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 Generators, are they compounded as per Rule YES 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 and do the results comply with the requirements

If the generators are 100 kw. or over have they been built and tested under survey

Details of driven machinery other than generator NONE

PLANS.—Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

Have Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.

SPARE GEAR AS PER RULE REQUIREMENTS

The foregoing is a correct description,

Manufacturer.



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