

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12003

Received at London Office 16 APR 1956

4c.

of writing Report 22nd March 1956 When handed in at Local Office 14th April 1956 Port of Marseille
 No. in Survey held at La Penne sur Mer Date, First Survey 10 October 1955 Last Survey 10th March 1956
 g. Book. 455-56 on the Single Triple Quadruple Screw vessel motor ship "ZAGORA" Tons Gross 1678.63 Net 720.16
 4309 built at La Penne sur Mer By whom built Forges et Chantiers de la Mediterranee Yard No. 1310 When built 1956
 owners Compagnie Francaise Chercheuse de Navigation Port belonging to CASABLANCA
 Engines made at Marseille (Nord) By whom made Acieries du Nord Engine No. 208-209-210 When made 1955
 generators made at Antony (Seine) By whom made Societe Gramme Generator No. 43.025 When made 1955
 of Sets 3 B.H.P. of each Set 150 M.N. of each Set as per Rule 50 Capacity of each Generator 100 Kilowatts
 Set intended for essential services yes

IL ENGINES, &c.—Type of Engines Internal Combustion, Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single
 azimum pressure in cylinders ✓ Diameter of cylinders 175 mm Length of stroke 200 mm No. of cylinders 6 No. of cranks 6
 can indicated pressure ✓ Span of bearings (i.e., distance between inner edges of bearings in way of a crank) ✓
 s there a bearing between each crank ✓ Moment of inertia of flywheel (16 m² or Kg.-cm.²) 16 m² Revolutions per minute 750 RPM
 flywheel dia. ✓ Weight ✓ Means of ignition compression Kind of fuel used Diesel oil
 Crank Shaft, Solid forged dia. of journals as per Rule Crank pin dia. ✓ Crank Webs Mid. length breadth shrunk Thickness parallel to axis ✓
Semi-built All-built as fitted Mid. length thickness Thickness round eye-holes ✓
 flywheel Shaft, diameter as per Rule Generator armature, moment of inertia (16 m² or Kg.-cm.²) ✓

re means provided to prevent racing of the engine yes Means of lubrication forced Kind of damper if fitted ✓
 re the cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes
 cooling Water Pumps, No. and how driven one, Engine Driven Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
 lubricating Oil Pumps, No. and size one, Engine Driven
 air Compressors, No. one No. of stages two Diameters 100 mm Stroke ✓ Driven by Direct Motor
 scavenging Air Pumps or Blowers, No. ✓ How driven ✓

AIR RECEIVERS:—Have they been made under Survey yes State No. of Report or Certificate ✓
 (other than main engines)
 state full details of safety devices Safety valve fitted to receiver head
 can the internal surfaces of the receivers be examined and cleaned yes
 s 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 ✓
 starting Air Receivers, No. one Total cubic capacity 0.250 cu. m. Internal diameter 350 mm thickness 9 mm
 seamless, lap welded or riveted longitudinal joint welded Material S.H. Steel Range of tensile strength 38/40 Working pressure 30 kg/cm²

ELECTRIC GENERATORS:—Type DC generators, Marine Type, Ventilated
 Pressure of supply 220 volts. Full Load Current 495 Amperes. Direct or Alternating Current Direct
 as be of alternating current system, state the periodicity ✓ Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 and 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
 inter all terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced yes
 The or shielded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes
 ves of the generators are under 100 kw. full load rating, have the makers supplied certificates of test ✓ and do the results comply with the requirements ✓
 inst of the generators are 100 kw. or over have they been built and tested under survey yes
 orsle Details of driven machinery other than generator ✓

PLANS.—Are approved plans forwarded herewith for Shafting ✓ Receivers ✓ Separate Tanks yes
 (If not, state date of approval)
 Have Torsional Vibration characteristics if applicable been approved yes Armature shaft Drawing No. ✓
 (State date of approval and name of previous duplicate case, if any)
 Has the spare gear required by the Rules been supplied yes

The foregoing is a correct description,

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - Jan. 1955 to June 1955 (See Val. Surv. Cert. 27-6-55)
 { During erection on board vessel - - 10 October to 10 March 1956 (in conjunction)
 Total No. of visits See Rpt 4 G No 12002

Dates of Examination of principal parts - Cylinders Covers Pistons Piston rods

Connecting rods Crank and Flywheel shafts Intermediate shafts

Crank shaft { Material Tensile strength
 { Elongation Identification Marks

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers

No 25765 LLOYDS TEST 48 KGM CM2 WP 30 KGM CM2 HJM 27-5-55

Is this machinery duplicate of a previous case No If so, state name of vessel ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

- (1) The diesel engines of these generator sets have been surveyed during construction to approved plans and tested under full load condition after completion (See Valencian Surveyors Cert. 27-6-55 herewith)
- (2) The D.C. generator for these sets have been surveyed during their construction and tested on completion (See Ronev' Surveyors Cert. No 873 herewith)
- (3) These 60 engine generator sets have been satisfactorily fitted on board and found satisfactory during trials under full load and 10 per cent over

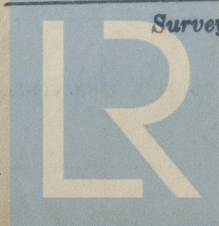
The amount of Fee ... £ See Rpt 4 G No 12002 When applied for ✓ 19
 Travelling Expenses (if any) £ : : When received ✓ 19

FRIDAY 18 MAY 1956

Committee's Minute

Assigned See Rpt. 4 G.

Surveyor to Lloyd's Register of Shipping.



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