

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 1

Received at London Office 21 JUL 1955

No. of writing Report 25th June 1955 When handed in at Local Office 25th June 1955 Port of VALENCIENNES
 No. in Survey held at MAUBEUGE, Nord, France Date, First Survey 5/1/55 Last Survey 23/6/ 1955
 g. Book. Number of Vists 9
 Single on the Twin Triple Quadruple Screw vessel "ZAGORA" Tons Gross Net
 Built at LA SEYNE, Var, France By whom built Forges & Chantiers de la Méditerranée Yard No. 1310 When built 1955
 Owners Compagnie Franco-Chérifienne de Navigation Port belonging to -
 Engines made at Maubeuge By whom made Acières du Nord Engine No. 208 When made 1955
 Generators made at Paris By whom made Ets Gramme Generator No. When made 1955
 No. of Sets (3) B.H.P. of each Set 150 M.N. of each Set as per Rule Capacity of each Generator 100 Kilowatts
 Set intended for essential services Yes

INTERNAL ENGINES, &c.—Type of Engines M.A.N. W 6 V 17.5/22 A 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 62 Kg/cm² Diameter of cylinders 175 mm Length of stroke 220mm No. of cylinders 6 No. of cranks 6
 Indicated pressure 7.6 Kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 195 mm
 Is there a bearing between each crank Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 164 x 10⁴ Kg.-cm.² Revolutions per minute 750
 Flywheel dia. 800 mm Weight 439 K^o Means of ignition Fuel injection Kind of fuel used Gas oil or fuel
 Crank Shaft, Solid forged dia. of journals as per Rule Crank pin dia. 105 mm Crank Webs Mid. length breadth 178 mm Thickness parallel to axis
 Semi-built dia. of journals as fitted 105 mm Mid. length thickness 42 mm Thickness round eyeballs
 All-built
 Crankshaft enlarged dia. 115 mm Generator armature, moment of inertia (16 m² or Kg.-cm.²) 47 x 10⁴ KG.-cm²

Means provided to prevent racing of the engine Yes Means of lubrication Forced Kind of damper if fitted -
 Are 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 gear Is the sea suction provided with an efficient strainer which can be cleared within the vessel fresh water cooled no s trainer
 Lubricating Oil Pumps, No. and size One capacity : 4500 L/H

Compressors, No. - No. of stages - Diameters - Stroke - Driven by -
 Sucking Air Pumps or Blowers, No. - How driven -

AIR RECEIVERS:—Have they been made under Survey - State No. of Report or Certificate -
 (other than main engines)
 State full details of safety devices -

Are the internal surfaces of the receivers be examined and cleaned -
 Is there a drain arrangement fitted at the lowest part of each receiver -

High Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
 unless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -
 Working Air Receivers, No. 25765 one for 3 Sets Total cubic capacity 250 Litres Internal diameter 350 mm thickness 9 mm
 unless, lap welded or riveted longitudinal joint seamless Material OH Steel Range of tensile strength 38/42 Kg/mm² Working pressure 30 Kg/cm²

ELECTRIC GENERATORS:—Type -
 Voltage of supply volts Full Load Current Amperes Direct or Alternating Current
 Is an alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 and off Generators, are they compounded as per Rule is an adjustable regulating resistance fitted in series with each shunt field
 Are all terminals accessible, clearly marked, and furnished with sockets Are they so spaced
 Are they shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule
 Do the generators are under 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements
 Do the generators are 100 kw. or over have they been built and tested under survey Yes see attached copy of report
 Are there any other details of driven machinery other than generator

SHAFTS:—Are approved plans forwarded herewith for Shafting 21st March 1955 Receiver 21st March 55 Separate Tanks -
 (If not, state date of approval)
 Have Torsional Vibration characteristics if applicable been approved see letter 21st March 1955 Armature shaft Drawing No. -
 (State date of approval and name of previous duplicate case, if any)
 Are 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 - - 5 Jan, 20 April, 3/5/55, 4/5/55, 5/5/55, 6/5/55, 7/6/55, 8/6/55, 23/6/55
During erection on board vessel - - -
Total No. of visits

Dates of Examination of principal parts: Cylinders 3/5/55 heads Covers 3/5/55 Pistons 4/5/55 Piston rods -

Connecting rods 5/5/55 Crank and Flywheel shafts 4/5/55 Intermediate shafts -

Crank shaft: Material NiCrMo Steel See London's letter 21/3/55 Tensile strength 80/90 Kg/mm2 confirmed by Bri
Elongation 15% on 100 mm Identification Marks Eng. N° 208 N° 44 HJM 3/5/55

Flywheel shaft, Material None Identification Marks None

Identification marks on Air Receivers N° 25765 Lloyd's Test 48 K°5 WR 30 K° HJM 27/5/55

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The Diesel engine has been constructed in accordance with Rule Requirements, Approved Plans and Secretary's letters. The materials and workmanship, are good. The diesel engine is considered to be up to the standards required for auxiliary machinery for vessels classed with this Society
C.E.R.D.?

4m.5.52.-T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ Frs. 20.800 When applied for 19
Travelling Expenses (if any) £ Frs : 5.300 When received 19

FRIDAY 18 MAY 1956

Committee's Minute
Assigned See Rpt. 46.

Surveyor to Lloyd's Register of Shipping.
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