

RECEIVED

APR 1951

D.O.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 122224

Received at London Office
 Date of writing Report 9 April 1951 When handed in at Local Office 9 April 1951 Port of London
 No. in Survey held at London Date, First Survey 21 February Last Survey 2 April 1951
 g. Book. Number of Visits 3
 on the Twin Triple Quadruple Screw vessel
 By whom built Yard No. When built
 Port belonging to
 Engines made at Dagenham By whom made Russell Newbery & Co. Ltd. Eng No 10 FL 5167 Contract No D8149 When made 1951
 Generators made at By whom made Contract No. When made
 No. of Sets 1 Engine Brake Horse Power 9 M.N. as per Rule Total Capacity of Generators Kilowatts.
 Set intended for essential services Auxiliary set

OIL ENGINES, &c.—Type of Engines high speed compression ignition 2 or 4 stroke cycle 4 Single or double acting S.A.
 Maximum pressure in cylinders 850 p.s.i. Diameter of cylinders 4 1/8" Length of stroke 6" No. of cylinders 1 No. of cranks 1
 Mean indicated pressure 10.5 Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/2"
 Is there a bearing between each crank Yes Moment of inertia of flywheel 34525 (16 m² or Kg.-cm.²) Revolutions per minute 1000
 Flywheel dia. 25" Weight 336 lbs Means of ignition Compression Kind of fuel used pool
 Crank Shaft, dia. of journals as per Rule as applied 2 1/2" Crank pin dia. 2 5/8" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis
 as fitted 2 1/2" Mid. length thickness 1 3/4" shrunk Thickness round eye hole
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²)
 as fitted Means provided to prevent racing of the engine when declutched Yes Means of lubrication forced Kind of damper if fitted none
 Are the cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material
 Cooling Water Pumps, No. 1 plunger type Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 Lubricating Oil Pumps, No. and size 1 gear pump 2 gal/min
 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 State No. of Report or Certificate
 Each receiver, which can be isolated, fitted with a safety valve as per Rule
 Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 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
 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
 Pressure of supply volts. Full Load Current Amperes. Direct or Alternating Current
 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
 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
 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
 PLANS.—Are approved plans forwarded herewith for Shafting Receivers. Separate Tanks.
 (If not, state date of approval)
 Have Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.
 (state date of approval)
 SPARE GEAR makes supply covering Rule Requirements. To be carried on ship

The foregoing is a correct description,

Manufacturer.

FOR & ON BEHALF OF RUSSELL, NEWBERRY & CO. LTD.



© 2021

Lloyd's Register
Foundation

015004-015014 2024

(The Surveyors are requested not to write on or below the space for Committee Minute.)