

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 107395

Received at London Office 22 MAY 1939

22 MAY 1938  
 Date of writing Report 19 When handed in at Local Office 22 MAY 1938 Port of London  
 Date, First Survey 31 Dec 1936 Last Survey 26 April 1939  
 Number of Visits Two  
 on the Single/Twin/Triple/Quadruple Screw vessel  
 Tons { Gross: Net:  
 Built at Goolc By whom built Goolc S. B. & R. Co. Ltd Yard No. 345 When built  
 Port belonging to Serial  
 Engines made at Newbury By whom made Newbury Diesel Co. Ltd. Contract No. 3244C When made  
 Generators made at By whom made Contract No. When made  
 No. of Sets 1 Engine Brake Horse Power 10 Nom. Horse Power as per Rule 1.66 Total Capacity of Generators Kilowatts.

**ENGINES, &c.** Type of Engines High Speed Solus Injection 2 or 4 stroke cycle 4 Single or double acting SA  
 Maximum pressure in cylinders 700 lbs Diameter of cylinders 105 1/4 Length of stroke 152 1/4 No. of cylinders 1 No. of cranks 1  
 Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 134 1/4 Is there a bearing between each crank No  
 Revolutions per minute 1000 Flywheel dia. 634 1/4 Weight 380 lbs Means of ignition Compression Kind of fuel used Diesel Oil  
 Crank Shaft, dia. of journals as per Rule as fitted 62 1/4 Crank pin dia. 62 1/4 Crank Webs Mid. length breadth 8 1/4 Thickness parallel to axis Mid. length thickness 32 1/4 shrunk Thickness around eyehole  
 Flywheel Shaft, diameter as per Rule as fitted Crank shaft Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 9.5 1/4  
 Is there a governor or other arrangement fitted to prevent racing of the engine when declutched No Means of lubrication In oil  
 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. One 52 gal/min Is the sea suction provided with an efficient strainer which can be cleared within the vessel  
 Lubricating Oil Pumps, No. and size One 0.56 gal/min (gear)  
 Air Compressors, No. No. of stages Diameters Stroke Driven by  
 Sucking Air Pumps, No. None Diameter Stroke Driven by

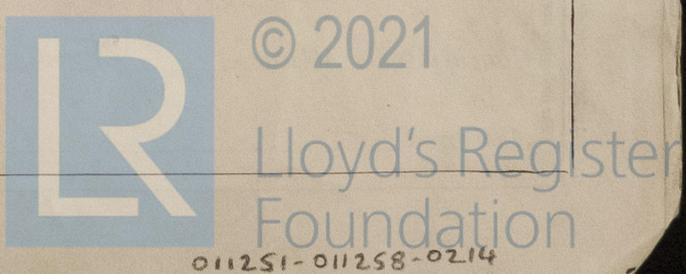
**RECEIVERS:**—Is each receiver, which can be isolated, fitted with a safety valve as per Rule  
 Are the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces  
 Is there a drain arrangement fitted at the lowest part of each receiver  
 High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness  
 Material Range of tensile strength Working pressure by Rules  
 Starting Air Receivers, No. Total cubic capacity Internal diameter thickness  
 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 efficient when the whole load is suddenly thrown on and off  
 Are the generators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each  
 Are all terminals accessible, clearly marked, and furnished with sockets  
 Are they so spaced or 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

**PLANS.** Are approved plans forwarded herewith for Shafting Standard by me. Receivers. Separate Tanks  
 (If not, state date of approval)  
**ARE GEAR** Rule requirement plans forwarded.  
 Note: all parts for this engine & those of Serial No. 4009C are interchangeable.

The foregoing is a correct description For & on behalf of THE NEWBURY DIESEL Co. LTD.

Secretary  
 Manufacturer.



Dates of Survey while building  
 During progress of work in shops - - 1936: Dec 31. 1939: Apr 26  
 During erection on board vessel - - -  
 Total No. of visits 2 (in shops)

Dates of Examination of principal parts—Cylinders 31.12.36 Covers 31.12.36 Pistons 31.12.36 Piston rods  
 Connecting rods 31.12.36 Crank and Flywheel shaft 31.12.36 Intermediate shaft  
 Crank and Flywheel shafts, Material S Identification Mark 6629 GAL.  
 Intermediate shafts, Material Identification Marks

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

General Remarks (State quality of workmanship, opinions as to class, &c.) This engine has been built of best materials. The material & workmanship are good.  
 This engine has been taken from stock at the makers works, and is now fitted on common bedplate with:  
 One 2 stage air compressor M: 38847. (head test 5.9.38. J.H.M.) 23 cu. ft. swept vol. to  
 One 60/70 tons per hour reciprocating G.S. pump, by Newbury Civil G. Ltd.  
 One 32 tons/hour centrifugal pump by Bensons of Birmingham.

The set has been forwarded to Eode for installation on board the vessel.

lm.238.—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ 4 : 4 :  
 Travelling Expenses (if any) £ : :  
 When applied for, 22 MAY 1939  
 When received, 12/8/39

*M. North* for G.A. Laming & self  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
 Assigned See FE machy rft  
 FRI 18 AUG 1939

