

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 107396

Received at London Office 22 MAY 1939

22 MAY 1939

22 MAY 1939

of writing Report 10 When handed in at Local Office 10 Port of London  
 in Survey held at Newbury Date, First Survey 26 JANUARY Last Survey 26 APRIL 1939  
 Book. Number of Visits THREE

Single  
 on the Twin  
 Triple  
 Quadruple  
 Screw vessel

Tons { Gross  
 Net

ilt at Goole By whom built Goole S.B. & Repairing Co. Ltd. Yard No. 345 When built

Port belonging to Serial  
 Engines made at Newbury By whom made Newbury Diesel Co. Ltd. Contract No. 4009C When made 1939  
 Generators made at Runsley, Glo. By whom made Mawdsleys' Ltd. Contract No. When made

of Sets 1 Engine Brake Horse Power 30 Nom. Horse Power as per Rule 4.95 Total Capacity of Generators Kilowatts.

ENGINES, &c. Type of Engines High Speed, Low Injection 2 or 4 stroke cycle 4 Single or double acting SA

Maximum pressure in cylinders 700 lbs Diameter of cylinders 105 7/8 Length of stroke 152 7/8 No. of cylinders 3 No. of cranks 3

Distance between bearings, adjacent to the Crank, measured from inner edge to inner edge 134 7/8 Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 63 1/4 Weight 380 lbs. Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 62 7/8 as fitted 62 7/8 Crank pin dia. 62 7/8 Crank Webs Mid. length breadth 84 7/8 Mid. length thickness 32 7/8 Thickness parallel to axis shrunk Thickness around eyehole ✓

Flywheel Shaft, diameter as per Rule Blank Shaft as fitted Blank Shaft Intermediate Shafts, diameter as per Rule Blank Shaft as fitted Blank Shaft Thickness of cylinder liners 9.5 7/8

Is there a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced

Are the cylinders fitted with safety valves No. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Boiling Water Pumps, No. One, 125 gal/hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size One 0.96 gal/min (gear pump.)

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

Scavenging Air Pumps, No. None Diameter Stroke Driven by

AIR RECEIVERS:—Is 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 D.C. Compound wound. Dip Prof. Continuous rating.

Pressure of supply 220 V volts. Load 72.7 Amperes. Direct or Alternating Current Direct

Is there an alternating current system, state frequency of periods per second Works certificate attached to this Report.

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Generators, do they comply with the requirements regarding rating are they compound wound

Are they over compounded 5 per cent. if not compound wound state distance between each generator

Are there 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 or shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

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

SHAFTING. Rule requirement spans forwarded.

U.C. all parts for this engine & those of Serial No. 3244 C are interchangeable.

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

Manufacturer.

SECRETARY.



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Lloyd's Register  
 Foundation

011251-011258-0215



Dates of Survey while building  
During progress of work in shops - - - 1939: Jan 26 Mar 23 Apr 26  
During erection on board vessel - - -  
Total No. of visits Three (do shops)

Dates of Examination of principal parts—Cylinders 23.3.39 Covers 23.3.39 Pistons 23.3.39 Piston rods ✓

Connecting rods 26.4.39 Crank and Flywheel shaft 26.4.39 Intermediate shaft ✓

Crank and Flywheel shaft, Material S Identification Mark H 55 B CSP WK 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 under special survey of tested materials. The material & workmanship are good.

The engine is intended to drive one 16 k.w. generator, works satisfactorily for which is attached.

The set has been dispatched to Gode for installation on board the vessel.

1m.7.26—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

W. D. North  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Assigned See F.E. Mackay rpt.

FRI 18 AUG 1939