

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 107395

Received at London Office 22 MAY 1939

22 MAY 1939 22 MAY 1939 Port of London  
 Date, First Survey 31 Dec 1936 Last Survey 26 April 1939  
 Number of Visits Two

in Survey held at Newbury  
 on the Single Twin Triple Quadruple Screw vessel  
 Tons { Gross             
 Net           

By whom built Goole S. B. Ry. Co. Ltd Yard No. 345 When built           

Port belonging to Newbury Diesel Co. Ltd Serial No. 3244C When made           

By whom made            Contract No.            When made           

of Sets 1 Engine Brake Horse Power 10 Nom. Horse Power as per Rule 1.66 Total Capacity of Generators            Kilowatts.

L 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 Yes

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 62 1/4" Crank pin dia. 62 1/4" Crank Webs 84 1/4" Thickness parallel to axis           

as per Rule            as fitted            Mid. length breadth 32 1/4" Thickness around eyehole           

Flywheel Shaft, diameter            Intermediate Shafts, diameter            as per Rule            Thickness of cylinder liners 9.5 1/4"

as fitted Crank shaft as fitted            as fitted            as fitted           

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

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 gals/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 gals/min (gear)

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

scavenging 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           

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           

Is the 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           

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           

Are approved plans forwarded herewith for Shafting Standard by me Receivers            Separate Tanks           

ARE GEAR Rule requirement spans forwarded

Note all parts for this engine & those of Serial N: 4009C 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

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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 No 38847. (head test 5.9.38. J.H.M.). 23 cu ft. swept vol. h  
One 60/70 tons per hour reciprocating G.S. pump, by Newbury Steel Co. Ltd.  
One 32 tons/hour centrifugal pump by Benson & Birmingham.

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

1m.238.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

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 F.E. machine, rft

FRI 18 AUG 1939

