

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 106915

Received at London Office

FEB 1939

Date of writing Report 2 FEB 1939 When handed in at Local Office FEB 1939 Port of London  
No. in Survey held at Newbury Date, First Survey 31 Dec 1936 Last Survey 19-12-1938  
Reg. Book. Number of Visits Five

50912 on the Single Four Triple Quadruple Screw vessel FRED. EVERARD. Tons { Gross 228.79 Net 104.51

Built at Great Yarmouth. By whom built Fellows & Co. Ltd. Yard No. When built 1926-10.

Owners F.T. Everard & Sons Ltd. Port belonging to London.

Oil Engines made at Newbury. By whom made Newbury Diesel Co Ltd. Contract No. 3245C When made

Generators made at By whom made Contract No. When made

No. of Sets Engine Brake Horse Power 20. Nom. Horse Power as per Rule Total Capacity of Generators Kilowatts.

OIL ENGINES, &c. Type of Engines High Speed. Diesel injection. 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 700 lbs. Diameter of cylinders 105 in Length of stroke 152 in No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 134 in Is there a bearing between each crank Yes.

Revolutions per minute 1000 Flywheel dia. 634 in Weight 380 lbs. Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 62 in Crank pin dia. 62 in Crank Webs Mid. length breadth 84 in Thickness parallel to axis 32 in

Flywheel Shaft, diameter as per Rule Crank shaft. Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 9.5 in

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

Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Cooling Water Pumps, No. 1 @ 100 gals/hour. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size gear pump. 0.96 gals/min.

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

Scavenging Air Pumps, No. 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

Pressure of supply volts. Load Amperes. Direct or Alternating Current

If alternating current system, state frequency of periods per second

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

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 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 Receivers Separate Tanks

SPARE GEAR

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

*W. H. King* Manufacturer. SECRETARY.



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W1648-0238

Dates of Survey while building { During progress of work in shops - 1926 Dec 31  
 During erection on board vessel - 10-11-38, 1-12-38, 12-12-38, 19-12-38.  
 Total No. of visits Five

Dates of Examination of principal parts—Cylinders 31-12-36 Covers 31-12-36 Pistons 31-12-36 Piston rods 31-12-36

Connecting rods 31-12-36 Crank and Flywheel shaft 31-12-36 Intermediate shaft ✓

Crank and Flywheel shaft, Material S. Identification Mark 6688 MARB 29-9-36 Intermediate shafts, Material ✓ Identification Marks

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

General Remarks (State quality of workmanship, opinions as to class, &c.)

This engine is one of a batch built under survey of better materials & placed in stock.

This engine has been securely fitted onboard vessel and tried under full working conditions with satisfactory results. and is eligible in my opinion to be classed with the main machinery 29-9-38.

1 in. 7.20—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... .. £	When applied for,
Travelling Expenses (if any) £	When received,
	19.....
	19.....

*W. D. Smith* for *S. H. Lang* & *J. A. Nicholas*  
 Surveyors to Lloyd's Register of Shipping

TUE. 7 FEB 1939

Committee's Minute

Assigned

*See Log Rph 106790*



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