

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 108410

Date of writing Report 27-3-1940 When handed in at Local Office 11 MAR 1940 Port of Ipswich  
 No. in Survey held at Rowhedge Date, First Survey 20-2-40 Last Survey 20-2-1940  
 Reg. Book. on the <sup>Single</sup> ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel m.v. 'BEN HANN' Tons { Gross 298.  
 Built at Rowhedge By whom built Rowhedge Ironworks Ltd. Yard No. 585 When built 1940  
 Owners National Bungal Co. Ltd. Port belonging to London.  
 Oil Engines made at Manchester By whom made L. Sandeman & Co. Ltd. Contract No. 47555 When made 1939.  
 Generators made at ✓ By whom made ✓ Contract No. ✓ When made ✓  
 No. of Sets 6 Engine Brake Horse Power 30 Nom. Horse Power as per Rule 8.5 Total Capacity of Generators — Kilowatts.

## OIL ENGINES, &amp;c.—Type of Engines

2 or 4 stroke cycle Single or double acting  
 Maximum pressure in cylinders Diameter of cylinders Length of stroke No. of cylinders No. of cranks  
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge Is there a bearing between each crank  
 Revolutions per minute Flywheel dia. Weight Means of ignition Kind of fuel used  
 Crank Shaft, dia. of journals as per Rule as fitted Crank pin dia. Crank Webs Mid. length breadth Thickness parallel to axis  
 Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Mid. length thickness shrunk Thickness around eyehole  
 Thickness of cylinder liners

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Means of lubrication  
 Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged  
 Cooling Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel  
 Lubricating Oil Pumps, No. and size

Air Compressors, No. No. of stages Diameters Stroke Driven by  
 Suckering 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  
 Alternating current system, state frequency of periods per second  
 As 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  
 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

ANS. Are approved plans forwarded herewith for Shafting (If not, state date of approval) Receivers Separate Tanks

ARE GEAR

The foregoing is a correct description,

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } 20-2-40  
 { During erection on board vessel - - - }  
 Total No. of visits 6

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

Connecting rods Crank and Flywheel shaft Intermediate shaft

Crank and Flywheel shafts, Material Identification Mark

Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case If so, state name of vessel

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

*This engine has been efficiently fitted on board this vessel and examined & tested under working conditions.*

*(Manchester Report 4°9751)*

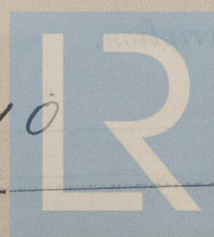
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*Byrrell*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

*See Lon. J.C. 108410*



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