

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 108410

Date of writing Report 27-3-1940 When handed in at Local Office 111 MAR 1940 Port of Ipwich Received at London Office 11 MAR 1940

No. in Survey held at Rowhedge Date, First Survey 20-2-40 Last Survey 20-2-1940  
Reg. Book. Rowhedge Number of Visits one

on the Single Screw vessel m.v. 'BEN HANN' Tons { Gross 298  
Triple Net

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 one Engine Brake Horse Power 30 Nom. Horse Power as per Rule 8.5 Total Capacity of Generators ✓ Kilowatts.

**OIL ENGINES, &c.**—Type of Engines 2 or 4 stroke cycle Single or double acting 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 \_\_\_\_\_ Crank pin dia. \_\_\_\_\_ Crank Webs \_\_\_\_\_ Mid. length breadth \_\_\_\_\_ Thickness parallel to axis \_\_\_\_\_  
as fitted \_\_\_\_\_ Mid. length thickness \_\_\_\_\_ shrunk \_\_\_\_\_ Thickness around eyehole \_\_\_\_\_

Flywheel Shaft, diameter \_\_\_\_\_ as per Rule \_\_\_\_\_ Intermediate Shafts, diameter \_\_\_\_\_ as per Rule \_\_\_\_\_ Thickness of cylinder liners \_\_\_\_\_  
as fitted \_\_\_\_\_ as fitted \_\_\_\_\_

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 \_\_\_\_\_  
Sweeping 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 \_\_\_\_\_

Is an 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 \_\_\_\_\_

Do the 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 \_\_\_\_\_

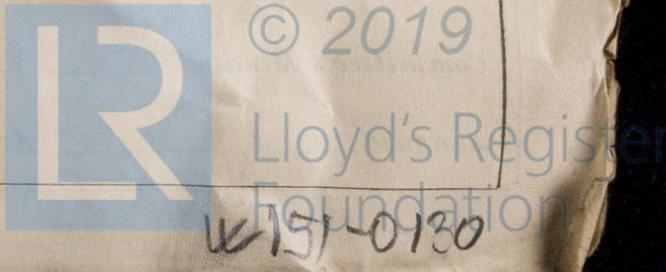
Are there adjustable regulating resistance fitted in series with each shunt field \_\_\_\_\_ Are all terminals accessible, clearly marked, and furnished with sockets \_\_\_\_\_  
Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched \_\_\_\_\_ Are the lubricating arrangements of the generators as per Rule \_\_\_\_\_

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

ARE GEAR \_\_\_\_\_

The foregoing is a correct description,

Manufacturer.



Dates of Survey while building  
 During progress of work in shops - -  
 During erection on board vessel - - -  
 Total No. of visits

20-2-40

One

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)*

Im. 6.31—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

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

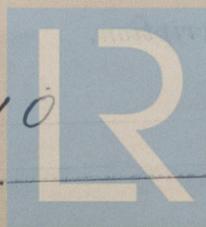
*Byrrell*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

TUE 20 MAR 1940

*See Jan. J.C. 108410*



© 2019

Lloyd's Register Foundation