

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 92312

Date of writing Report **- 8 FEB 1928** When handed in at Local Office **- 8 FEB 1928** Port of **London**  
 No. in Survey held at **Bedford** Date, First Survey **24 November 1927** Last Survey **31<sup>st</sup> January 1928**  
 Reg. Book. **40038** On the **Single** Screw vessel **"BRITISH COURAGE"** Tons **Gross 6952 Net 4101**  
 Built at **Port Glasgow** By whom built **Lishjows, Ltd.** Yard No.  When built   
 Owners **The British Tanker Co. Ltd.** Port belonging to **London**  
 Oil Engines made at **Bedford** By whom made **Messrs. W. H. Allen & Co.** Contract No. **68201/2** When made **1928**  
 Generators made at **Bedford** By whom made **Messrs. W. H. Allen & Co.** Contract No. **68204/2** When made **1928**  
 No. of Sets **2** Engine Brake Horse Power **200 each** Nom. Horse Power as per Rule **57** Total Capacity of Generators **130** Kilowatts.

**IL ENGINES, &c.**—Type of Engines **Diesel (Burmester-Hain)** 4 stroke cycle **Yes** Single or double acting **S.H.**  
 Maximum pressure in cylinders **500 lb/sq in** Diameter of cylinders **300 mm** Length of stroke **430 mm** No. of cylinders **Two** No. of cranks **Two**  
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge **360 mm** Is there a bearing between each crank **Yes**  
 Revolutions per minute **300** Flywheel dia. **1600 mm** Weight **4 tons 6 cwt** Means of ignition **Compression** Kind of fuel used **Diesel**  
 Crank Shaft, dia. of journals **as per Rule 166 mm** Crank pin dia. **180 mm** Mid. length breadth **230 mm** Thickness parallel to axis **SOLID FORGED**  
 as fitted **180 mm** Crank Webs **100 mm** Mid. length thickness **100 mm** Thickness around eye-hole   
 Flywheel Shaft, **CRANK SHAFT** Intermediate Shafts, diameter **as per Rule** Thickness of cylinder liners **23 mm**  
 as fitted  as fitted  as fitted   
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched **Yes** Means of lubrication **Mechanical forced.**  
 Are the cylinders fitted with safety valves **Yes** Are the exhaust pipes and silencers water cooled or lagged with non-conducting material   
 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 **One forced pump driven from each engine**  
 Air Compressors, No. **Two** No. of stages **Three** Diameters **7/285/318 mm** Stroke **220 mm** Driven by **Cranks on shaft**  
 Scavenging Air Pumps, No.  Diameter  Stroke  Driven by   
**IR RECEIVERS:**—Is each receiver, which can be isolated, fitted with a safety valve as per Rule **Insoluble plug**  
 Can the internal surfaces of the receivers be examined **Yes** What means are provided for cleaning their inner surfaces **Ends portable**  
 Is there a drain arrangement fitted at the lowest part of each receiver **Yes**  
 High Pressure Air Receivers, No. **One** Cubic capacity of each **90 litres** Internal diameter **9 3/4"** thickness **3/8"**  
 Seamless, lap welded or riveted longitudinal joint **Seamless** Material **Steel** Range of tensile strength **29/33 tons** Working pressure by Rules **1026 lb/sq in**  
 Starting Air Receivers, No.  Total cubic capacity **NONE** Internal diameter  thickness   
 Seamless, lap welded or riveted longitudinal joint  Material  Range of tensile strength  Working pressure by Rules   
**ELECTRIC GENERATORS:**—Type **Open**  
 Pressure of supply **220** volts. Load **295** Amperes. **Direct or Alternating Current** **Yes**  
 Is the **Automatic Governor** been tested and found efficient when the whole load is suddenly thrown on or off **Yes**  
 Generators, do they comply with the requirements regarding rating **Yes** are they compound wound **Yes**  
 Are they over compounded 5 per cent. **Yes**, if not compound wound state distance between each generator   
 Is an adjustable regulating resistance fitted in series with each shunt field **Yes** Are all terminals accessible, clearly marked, and furnished with sockets **Yes**  
 Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched **Yes** Are the lubricating arrangements of the generators as per Rule **Yes**  
**ANS.** Are approved plans forwarded herewith for Shafting  Receivers  Separate Tanks   
 (If not, state date of approval)

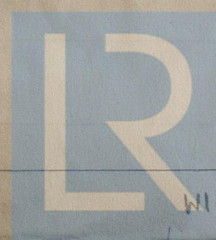
*As per attached List  
Kx/380.*

The foregoing is a correct description,

For **W.H. ALLEN SONS & COMPANY LIMITED**

*Approved.*

Manufacturer.



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Lloyd's Register  
Foundation

W1645-0131

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

Nov. 24, 28, Dec 1 1927 Jan. 13, 16, 20, 23, 27, 31 1928.

9 partial = 3 full.

Dates of Examination of principal parts—Cylinders Jan. 16, 20, 31 1928 Covers Jan. 16, 20, 31, 1928 Pistons 13-1-28 Piston rods ✓

Connecting rods Nov. 24, 28 1927 Dec. 1 1927 Crank and Flywheel shaft Jan. 16, 27, 1928 Intermediate shaft ✓

Crank and Flywheel shaft, Material Steel Identification Mark Lloyd's Test 796 J.P. 255 19-1-27 16-1-28 Intermediate shaft, Material Steel Identification Marks Lloyd's Test 798 J.P. 5-1-28 26-1-28

Is this machinery duplicate of a previous case? yes If so, state name of vessel "British Labour"

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

This Machinery has been constructed under Special Survey in accordance with approved plans and Rule requirements. The workmanship and materials, so far as can be seen, are good and satisfactory bench trials have been carried out under survey. The two sets which are numbered 68201/A/B have been despatched to Port Glasgow where they are to be installed and in my opinion, will be eligible for inclusion in the Classification and record of T.M.C. of the vessel.

1 m. 7.28—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £ 5-14-0 When applied for, - 8 FEB 1928

Travelling Expenses (if any) £ 3-15-5 When received, 12th Mar. 1928

Committee's Minute

Assigned

Charles D. Palmer  
Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register  
Foundation

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