

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 110,020

Received at London Office 11 NOV 1941  
 Date of writing Report 6-11-1941 When handed in at Local Office 11 NOV 1941 Port of Ipswich  
 No. in Survey held at Rowhedge Date, First Survey 6 JUNE 1941 Last Survey 31 OCTOBER 1941  
 Reg. Book. Number of Visits 16

on the <sup>Single</sup> ~~Four~~ ~~Triple~~ ~~Quadruple~~ Screw vessel M.V. "EMPIRE LAD" Tons <sup>Gross</sup> 298.  
 Built at Rowhedge By whom built Rowhedge Ironworks, Ltd. Yard No. 601 When built 1941  
 Owners Ministry of War Transport. Port belonging to Rowhedge  
 Oil Engines made at Manchester By whom made L. Barclay & Son, Ltd. Contract Nos. 52574/3 When made 1941  
 Generators made at By whom made Contract No. When made  
 No. of Sets Two Engine Brake Horse Power <sup>each</sup> 19. Nom. Horse Power as per Rule <sup>each</sup> 5.5. Total Capacity of Generators Kilowatts.

**OIL ENGINES, &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 <sup>as per Rule</sup> Crank pin dia. Crank Webs <sup>Mid. length breadth</sup> Thickness parallel to axis  
<sup>as fitted</sup> <sup>Mid. length thickness</sup> shrunk Thickness around eyehole  
 Flywheel Shaft, diameter <sup>as per Rule</sup> Intermediate Shafts, diameter <sup>as per Rule</sup> Thickness of cylinder liners  
<sup>as fitted</sup> <sup>as fitted</sup>  
 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  
 Scavenging Air Pumps, No. Diameter Stroke Driven by

**AIR RECEIVERS:**—Have they been made under Survey State No. of Report or Certificate  
 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. Full Load Current Amperes. Direct or Alternating Current  
 If 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  
 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  
 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

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

**SPARE GEAR**

The foregoing is a correct description,

Manufacturer.



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012542-012548-0016

Dates of Survey while building { During progress of work in shops - - }  
 { During erection on board vessel - - - } 1941: JUN 6 20 JULY 2 3 8 16 31 AUG 7 19 SEPT 4 11 OCT 9 22 23 24 31  
 Total No. of visits 16

Dates of Examination of principal parts—Cylinders \_\_\_\_\_ Covers \_\_\_\_\_ Pistons \_\_\_\_\_ Piston rods \_\_\_\_\_  
 Connecting rods \_\_\_\_\_ Crank and Flywheel shafts \_\_\_\_\_ Intermediate shafts \_\_\_\_\_  
 Crank and Flywheel shafts, Material \_\_\_\_\_ Identification Marks \_\_\_\_\_  
 Intermediate shafts, Material \_\_\_\_\_ Identification Marks \_\_\_\_\_  
 Identification marks on Air Receivers \_\_\_\_\_

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.)

These two auxiliary oil engines have been efficiently fitted on board this vessel, one port side of engine room inboard driving a cargo pump and one starb. side of engine room inboard driving hydraulic gear for windlass & steering gear, also cargo pump. They have been examined & tested under working conditions.

1m1137.—Transfer. (MADE IN ENGLAND.)  
 (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.....

*[Signature]*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 9 JAN 1942**  
 Assigned *See remarks rpl*

