

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 51220

Received at London Office 14 FEB 1931

Date of writing Report 19 When handed in at Local Office 9. 2. 1931 Port of Glasgow  
No. in Survey held at Glasgow Date, First Survey 23. 10. 1929 Last Survey 5. 7. 1931  
Reg. Book. Number of Visits 15 4

8429 on the Single Twin Triple Quadruple Screw vessel Wroastashire Tons { Gross 11453  
Net 7161

Built at Glasgow By whom built Fairfield S.P. Eng Co. Ltd Yard No. 640 When built 1931  
Owners Bibby S. & Co. Ltd Port belonging to Liverpool

Oil Engines made at Bedford By whom made James W. H. Allen & Co. Contract No. K1/19181-AB.2 When made 1930  
Generators made at Bedford By whom made James W. H. Allen & Co. Contract No. E1/18484-1-23 When made 1930

No. of Sets 3 Engine Brake Horse Power 1015 Nom. Horse Power as per Rule 290 Total Capacity of Generators 670 Kilowatts.

See London Report No. 9557.  
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 \_\_\_\_\_  
Mid. length thickness \_\_\_\_\_ Thickness around eyehole \_\_\_\_\_

Flywheel Shaft, diameter \_\_\_\_\_ as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ Intermediate Shafts, diameter \_\_\_\_\_ as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ 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 \_\_\_\_\_

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 \_\_\_\_\_

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 \_\_\_\_\_

Generators, do they comply with the requirements regarding rating \_\_\_\_\_ are they compound wound \_\_\_\_\_  
Do they over compound \_\_\_\_\_ 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 \_\_\_\_\_  
(If not, state date of approval)

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

*As per List attached to London Report (3 sheets)*

*James W. H. Allen & Co.*

The foregoing is a correct description,

Manufacturer.



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Foundation

003154-003161-0133

SEE ACCOMPANYING MACHINERY REPORT.

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

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

Connecting rods \_\_\_\_\_ Crank and Flywheel shaft \_\_\_\_\_ Intermediate shaft \_\_\_\_\_

Crank and Flywheel shaft, 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.)

*These Engines have been efficiently secured in position on board and have been examined under working conditions and found in order.*

*A.S.  
9/2/31*

*(Handwritten note at bottom of page)*

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

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

Committee's Minute **GLASGOW 11 FEB 1931**  
 Assigned **SEE ACCOMPANYING MACHINERY REPORT.**

