

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 113203

Received at London Office 15 OCT 1945  
 Date of writing Report 5-10-1945 When handed in at Local Office 15 OCT 1945 Port of *Sp. Smith*  
 No. in Survey held at *Colchester* Date, First Survey *and* Last Survey 5-10-1945  
 Reg. Book. *Single* on the *Twin* *Triple* *Quadruple* Screw vessel *EMPIRE TEDMUIR.* Tons { Gross 891 Net 381  
 Built at *1313P.* By whom built *Harland & Wolff* Yard No. *R184* When built  
 Owners *Ministry of War Transport.* Port belonging to  
 Oil Engines made at *Colchester* By whom made *Davey, Paxman & Co. Ltd.* Contract No. *4819* When made *1940*  
 Generators made at *Chelmsford* By whom made *Crompton Parkinson Ltd.* Contract No. *F.121A.1385* When made *1940*  
 No. of Sets *6m* Engine Brake Horse Power *46* Nom. Horse Power as per Rule *14* Total Capacity of Generators *25* Kilowatts.

OIL ENGINES, &c. Type of Engines *Heavy Oil (4 R.R.) Type* 2 or 4 stroke cycle *4* Single or double acting *single*  
 Maximum pressure in cylinders *750 lb/sq. in.* Diameter of cylinders *4 5/8"* Length of stroke *5 7/8"* No. of cylinders *4* No. of cranks *4*  
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *5 7/8"* Is there a bearing between each crank *Yes*  
 Revolutions per minute *1100* Flywheel dia. *28"* Weight *490 lb.* Means of ignition *Compression* Kind of fuel used *Diesel*  
 Crank Shaft, dia. of journals *as per Rule 3 5/8"* Crank pin dia. *2 7/8"* Crank Webs *Mid. length breadth 4 1/2"* Thickness parallel to axis *1 1/4"*  
 Flywheel Shaft, diameter *as per Rule 3 5/8"* Intermediate Shafts, diameter *as per Rule 1 1/8"* Thickness of cylinder liners *1/8"*  
 Is a governor or other arrangement fitted to prevent racing of the engine when detached *Yes* Means of lubrication *Lubrication*  
 Are the cylinders fitted with safety valves *No* Are the exhaust pipes and silencers water cooled or lagged with non-conducting material *Yes*  
 Cooling Water Pumps, No. *6m* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *Yes*  
 Lubricating Oil Pumps, No. and size *6m* *framed*  
 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 *Enclosed unit*  
 Pressure of supply *110* volts. Full Load Current *227* Amperes. Direct or Alternating Current *kind*  
 If alternating current system, state the periodicity *Has the Automatic Governor been tested and found as per rule when full 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 *10-6-44* Receivers Separate Tanks  
 (If not, state date of approval)

SPARE GEAR

The foregoing is a correct description,  
 For and on behalf of

DAVEY, PAXMAN &amp; Co. Limited

Manufacturer.

SALES MANAGER



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Lloyd's Register  
Foundation

015128-015137-0289



Dates of Survey while building  
 During progress of work in shops - - 1945 Dec 5  
 During erection on board vessel - - -  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 19.9.45. Covers 19.9.45. Pistons Piston rods

Connecting rods Crank and Flywheel shafts Intermediate shafts

Crank and Flywheel shafts, Material *Steel* Identification Marks *Z° 927. A.S.*

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, etc.)

*The Engine has been Constructed under Special Survey in accordance with the approved plans, Rule requirements and Secretary's letter. The materials & workmanship are of good description. The Engine has been examined under full load conditions for a period of four hours.*

Im. 439.—Transfer, (MADE AND PRINTED IN ENGLAND)

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

The amount of Fee ... £ 5-5-0 15 OCT 1945  
 Travelling Expenses (if any) £ 10-6  
 When applied for, 15 OCT 1945  
 When received, 19.....

*W. J. Sell*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 4 JUN 1946  
 Assigned TO ACCOMPANYING MACHINERY REPORT

Rpt. 13.  
 Date of writ  
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