

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 113202

Date of writing Report 5-10-1945 When handed in at Local Office 15 OCT 1945 Port of Spwich  
 Received at London Office 15 OCT 1945  
 No. in Survey held at Colchester Date, First Survey one Last Survey 3-10-1945  
 Reg. Book. 22970 Number of Visits ONE

on the Single Screw vessel EMPIRE TEDRITA. Tons Gross 890  
Triple Net 370  
Quadruple

Built at \_\_\_\_\_ By whom built Harland & Wolff Ltd. Yard No. P.1314 When built 1946

Owners Ministry of War Transport. Port belonging to \_\_\_\_\_

Oil Engines made at Colchester By whom made Davey, Paxman & Co. Ltd. Contract No. 4818 When made 1945  
 Generators made at Chilmsford By whom made Crompton Parkinson Ltd. Contract No. F.121A.1889 When made 1945

No. of Sets one Engine Brake Horse Power 46 Nom. Horse Power as per Rule 14 Total Capacity of Generators 25 Kilowatts.

ALL ENGINES, &c.—Type of Engines Heavy Oil (4 RQ) Type 2 or 4 stroke cycle 4. Single or double acting single  
 Maximum pressure in cylinders 750 lbs 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 495 lb. Means of ignition Compression Kind of fuel used Seisel  
 as per Rule 3 1/8" Crank pin dia. 2 7/8" Mid. length breadth 4 1/2" Thickness parallel to axis shrunk  
 Crank Shaft, dia. of journals 3 1/8" Crank webs 1 1/4" Mid. length thickness shrunk Thickness around eye-hole \_\_\_\_\_

Flywheel Shaft, diameter \_\_\_\_\_ as per Rule \_\_\_\_\_ as fitted 3 1/8" Intermediate Shafts, diameter \_\_\_\_\_ as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ 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 Forced

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. one Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size one forced.

Air Compressors, No. \_\_\_\_\_ No. of stages \_\_\_\_\_ Diameter \_\_\_\_\_ 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 ventilated

Pressure of supply 110 volts. Full Load Current 227 Amperes. Direct or Alternating Current alternat.

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 Yes

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 & Co. Limited

Manufacturer.

*[Signature]*  
 SALES MANAGER



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Dates of Survey while building  
 During progress of work in shops - - 1945. Oct 3  
 During erection on board vessel - - -  
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 26-9-45. Covers 15-9-45. Pistons Piston rods

Connecting rods Crank and Flywheel shafts Intermediate shafts

Crank and Flywheel shaft Material Steel Identification Marks N° 921 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, &c.)

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.

The amount of Fee ... £ 5 : 5 : 0

Travelling Expenses (if any) £ : 10 : 6

When applied for,

15 OCT 1945

When received,

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Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 24 SEP 1946

Assigned

SEE ACCOMPANYING MACHINERY REPORT



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