

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 113203

Date of writing Report 5-10-1945 When handed in at Local Office 15 OCT 1945 Port of Ipswich

No. in Survey held at Colchester Reg. Book. Date, First Survey and Last Survey 5-10-1945. Number of Visits ONE

Single on the Twin Triple Quadruple Screw vessel

EMPIRE TEDMUIR.

Tons Gross 891 Net 381

Built at By whom built Harland & Wolff Yard No. 1313P. When built

Owners Ministry of War Transport. Port belonging to

Oil Engines made at Colchester By whom made Davy, Paxman & Co. Ltd. Contract No. 4819. When made 1945

Generators made at Chelmsford By whom made Crompton Parkinson Ltd. Contract No. F.121A.1388 When made 1945

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.A.) 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

Flywheel Shaft, diameter as per Rule 3 5/8" Intermediate Shafts, diameter as per Rule 1 8" Thickness of cylinder liners 1/8"

Is a governor or other arrangement fitted to prevent racing of the engine when disconnected Yes Means of lubrication Lard

Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Cooling Water Pumps, No. 6m Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 6m forced.

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 unattended

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

SPARE GEAR

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

DAVEY, PAXMAN & Co. Limited

Handwritten signature and stamp: SALES MANAGER

Manufacturer.



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Lloyd's Register Foundation

015128-015197-0289

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. 430.—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
 Travelling Expenses (if any) £ 10-6
 When applied for, 15 OCT 1945
 When received, 19.....

Joywell
 Surveyor to Lloyd's Register of Shipping.

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

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