

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 113202

OCT 1945

15 OCT 1945

Received at London Office 15 OCT 1945

Date of writing Report 5-10-1945 When handed in at Local Office 19 Port of Spdnich
 No. in Survey held at Colchester Date, First Survey 2nd Last Survey 3-10-1945
 Reg. Book. Number of Visits ONE

Single
 on the Twin
 Triple Screw vessel
 Quadruple

EMPIRE TEDRITA.

Tons { Gross 890
 Net 370

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 Denny, Paxman & Co. Ltd. Contract No. 4818 When made 1945.

Generators made at Chalmers By whom made Crompton Parkinson Ltd. Contract No. F.21A.1889 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 (420) 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 In

Revolutions per minute 1100 Flywheel dia. 28" Weight 495 lb. Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 3 1/8" Crank pin dia. 2 7/8" Crank Webs Mid. length breadth 4 1/2 Thickness parallel to axis

as fitted 3 1/8" Mid. length thickness 1 1/4" Thickness around eye-hole

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

Is a governor or other arrangement fitted to prevent racing of the engine when detached In 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

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 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 Direct.

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 In

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.

SALES MANAGER



© 2021

Lloyd's Register
 Foundation

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

Nº 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,

19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

GLASGOW

24 SEP 1946

SEE ACCOMPANYING MACHINERY REPORT



© 2021

Lloyd's Register Foundation