

Lfe 7.8. Rpt No 122254

FOR CARGO LUMPS

RECEIVED  
4 AUG 1944

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11904.

Received at London Office

Date of writing Report **8. 1. 1944** When handed in at Local Office **1-8-1944** Port of **MANCHESTER.** **13 AUG 1944**

No. in Survey held at **PATRICROFT, MANCHESTER.** Date, First Survey **12. 11. 43.** Last Survey **15. 12. 1943.**  
Reg. Book. Number of Visits **Five**

on the **Single** Screw vessel **COASTING TANKER. "EMPIRE TAPLEY."** Tons Gross  
Net

Built at **NORTHWICH.** By whom built **I. Pimblott & Sons Ltd.** Yard No. **662** When built **1944**

Owners **-** Port belonging to **-** Engines **Engines**

Oil Engines made at **PATRICROFT.** By whom made **L. Gardner & Sons Ltd.** Nos. **60430-60431.** When made **1943.**

Generators made at **-** By whom made **-** Contract No. **-** When made **-**

No. of Sets **2** Engine Brake Horse Power **2 x 21** Com. Horse Power as per Rule **12** Total Capacity of Generators **-** Kilowatts.

**OIL ENGINES, &c.**—Type of Engines **Heavy Oil.** 2 or 4 stroke cycle **4** Single or double acting **Single.**

Maximum pressure in cylinders **850 lbs.** Diameter of cylinders **4.25"** Length of stroke **6"** No. of cylinders **2** No. of cranks **2**

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge **5.75"** Is there a bearing between each crank **Yes.**

Revolutions per minute **1080** Flywheel dia. **22"** Weight **304 lbs.** Means of ignition **Compression** Kind of fuel used **Heavy Oil.**

Crank Shaft, dia. of journals **2.625"** as fitted **2.625"** Crank pin dia. **2.625"** Crank Webs **4"** Mid. length breadth **4"** Thickness parallel to axis **-**

Flywheel Shaft, diameter **as per Rule** Flywheel mounted on **Crankshaft** Intermediate Shafts, diameter **as per Rule** Thickness of cylinder liners **.096"**

Is a governor or other arrangement fitted to prevent racing of the engine when declutched **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 **-**

Cooling Water Pumps, No. **One each Engine.** Is the sea suction provided with an efficient strainer which can be cleared within the vessel **-**

Lubricating Oil Pumps, No. and size **One each Engine - Gear Type. 13 Pints per min.**

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 **-**

Starting Air Receivers, No. **-** Total cubic capacity **-** Internal diameter **-** thickness **-**

**ELECTRIC GENERATORS:**—Type **-**

Pressure of supply **-** volts. Full Load Current **-** Amperes. Direct or Alternating Current **-**

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 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 **21.9.43.** Receivers **-** Separate Tanks **-**

SPARE GEAR AS PER RULE REQUIREMENTS. **-**

The foregoing is a correct description,

For & on behalf of **L Gardner & Sons Ltd.**  
**R E Jones**

Manufacturer.



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Lloyd's Register Foundation

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Dates of Survey while building  
 During progress of work in shops - - 12.11.43, 16.11.43, 19.11.43, 13.12.43, 15.12.43.  
 During erection on board vessel - - -  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 12.11.43  
 16.11.43. Covers 16.11.43. Pistons 19.11.43. Piston rods -  
 Connecting rods 12.11.43. 19.11.43. Crank and Flywheel shafts 12.11.43. Intermediate shafts -  
 Crank and Flywheel shafts, Material O. H. Steel. Identification Marks LLOYD'S C.229 & C.60. ELK, WJF, 20  
 Intermediate shafts, Material - Identification Marks -  
 Identification marks on Air Receivers -

Is this machinery duplicate of a previous case Yes. If so, state name of vessel J. PIMBLOTT Yard No. 655. Mch. Rpt. 11

General Remarks (State quality of workmanship, opinions as to class, &c.) THESE ENGINES HAVE BEEN CONSTRUCTED UNDER SPECIAL SURVEY, OF TESTED MATERIAL IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND REQUIREMENTS OF THE RULES.

THE MATERIALS AND WORKMANSHIP ARE GOOD AND THE ENGINES WERE FOUND TO BE SATISFACTORY WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS. THE ENGINES ARE SUITABLE, IN MY OPINION, FOR FITTING ON BOARD A VESSEL BUILDING TO THE CLASS OF THIS SOCIETY.

NOTE. THESE ENGINES ARE INTENDED FOR DRIVING CARGO PUMPS TO BE SUPPLIED BY THE SHIP BUILDERS.  
 ENGINE NO. 60430 ALSO DRIVES A ROTARY BILGE PUMP.

The amount of Fee ... £ 8 : 8 :  
 Travelling Expenses (if any) £ : 10 :  
 When applied for, 1/8/1944  
 When received, W.S.D.  
 19.....

W. J. Ferguson  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 20 FEB 1945  
 Assigned See Minute on Liverpool I.C. Machinery Repors.



Im. 430.—(MADE AND PRINTED IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)