

CEIVED

Rpt. 4c.

3 NOV 1944

N.D.O.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12017

Received at London Office 9-11-1944  
MANCHESTER.

Date of writing Report 2. 11. 1944 When handed in at Local Office 6. 11. 1944 Port of

No. in Survey held at MANCHESTER.  
Reg. Book.

Date, First Survey 22.9.43. Last Survey 27. 10. 19 44.

Number of Visits 3

Single  
on the Twin  
Triple  
Quadruple  
Screw vessel

S/S EMPIRE ALLENBY

Tons  
Gross  
Net

Built at Sunderland

By whom built J.L. Thompson & Co. Ltd. Yard No. 633.  
Richardsons Westgarth Ltd. Hull No. 2736Main Eng. Built. 1945-6 mo.  
When built 1944.

Owners

Port belonging to

Oil Engines made at ASHTON-U-LYNE.

By whom made National Gas &amp; O.E.Co.

Engine No. 57091. When made 1944.

Air Compressor made at IPSWICH.

By whom made Reavell &amp; Co. Ltd.

Compressor No. 83464. When made 1943.

No. of Sets One Engine Brake Horse Power 5 Nom. Horse Power as per Rule 1.4 Total Capacity of Generators - Kilowatts.

No. 2734/5 OIL ENGINES, &amp;c.—Type of Engines Vertical Solid Injection. 2 or 4 stroke cycle 4 Single or double acting Single.

Maximum pressure in cylinders 725 lbs/sq. in. Diameter of cylinders 3 3/4" Length of stroke 5 1/2" No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4 7/8" Is there a bearing between each crank -

Revolutions per minute 800 Flywheel dia. 22 1/2" Weight 235 lbs. Means of ignition - Kind of fuel used Diesel.

Crank Shaft, dia. of journals as per Rule Approved. 2" Crank pin dia. 2 1/8" Mid. length breadth 3 1/4" Thickness parallel to axis -  
as fitted 2" Crank Webs Mid. length thickness 1 1/8" shrunk Thickness around eye hole Solid.

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

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Splash.

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. 1 Centrifugal Type. Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

Lubricating Oil Pumps, No. and size

Air Compressors, No. One No. of stages Two Diameter Reavell No. 83464 Stroke Driven by Direct.

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

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 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 8.4.42. Receivers Separate Tanks  
(If not, state date of approval)

SHAFTING AS PER RULE REQUIREMENTS.

This 5 BHP Oil Engine/Air Compressor Set  
has been efficiently fitted & tested on board  
S/S EMPIRE ALLENBY.

J.L. Thompson's Yard No 633.

A. Watt  
Newcastle on Tyne  
10/6/45

The foregoing is a correct description,

THE NATIONAL GAS AND OIL ENGINE Co. Ltd.

J.L. Thompson

Manufacturer.



© 2020

Lloyd's Register

002798-002807-0243

PILLA  
Centre  
Stiff  
Plat  
STRING  
Upper  
Str  
Thi  
in  
Thi  
in  
Thi  
If S  
Second  
Stri  
STF  
Flat Plate  
Bottom P.  
Strakes  
Bilge Plat  
Strakes  
Side Plat  
Strakes  
Upper D  
strake  
Upper D  
strake i  
Strake b  
strake i  
Strake b  
strake ir  
Poop Side  
Bridge Si  
Forecastle  
MIDSHIP  
COLLISION  
AFTER PE  
STEEL

Dates of Survey while building  
During progress of work in shops - - 22.9.43. 30.7.43. 27.10.44.  
During erection on board vessel - - -  
Total No. of visits  
Dates of Examination of principal parts - Cylinders 22.9.43. Covers 22.9.43. Pistons - Piston rods -  
Connecting rods 22.9.43. Crank and Flywheel shafts 30.7.43. Intermediate shafts  
Crank and Flywheel shafts, Material 0. H. Steel. Identification Marks LLOYD'S M.128. 30.7.43. AGS.  
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 Richardsons Westgarth 2734/5.  
General Remarks (State quality of workmanship, opinions as to class, &c. THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. WORKMANSHIP AND MATERIALS ARE GOOD AND THE ENGINE, WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS GAVE SATISFACTORY RESULTS. IN MY OPINION, THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL CLASSED WITH THIS SOCIETY FOR THE PURPOSE INTENDED.

Im.4.30.-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 ... £ 4 : 4 : 0 When applied for, 19.....  
Travelling Expenses (if any) £ 0 : 10 : 0 When received, 19.....

Committee's Minute FRI. 20 JUL 1945  
Assigned Su F.E. machy. rpt.

R. G. Smith.  
Surveyor to Lloyd's Register of Shipping.