

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 91,823

26 SEP 1927

Received at London Office 20 SEP 1927

7 DEC 1927

7 DEC 1927

Writing Report 20 SEP 1927 When handed in at Local Office

Port of London

Survey held at Bedford

Date, First Survey Dec. 29 1926

Last Survey 15 Sept 1927

Number of Visits

on the <sup>Single</sup> ~~Twin~~ Screw vessel

"PACIFIC ENTERPRISE"

Tons { Gross  
Net

at Glasgow By whom built Blythwood Ship Co. Ltd. Yard No. 15 When built 1927

Port belonging to London

Engines made at Bedford

By whom made Messrs. W.H. Allen Sons & Co. Contract No. 40410/1/3

When made 1927

Generators made at Bedford

By whom made Messrs. W.H. Allen Sons & Co. Contract No. 40413/1/3

When made 1927

of Sets 3 Engine Brake Horse Power 735 each Nom. Horse Power as per Rule 210 Total Capacity of Generators 495 Kilowatts.

ENGINES, &c. Type of Engines Diesel (Burmester Main Sto) 4 stroke cycle Yes Single or double acting S.F.

Mean pressure in cylinders 500 lbs/sq. in. Diameter of cylinders 325 mm Length of stroke 440 mm No. of cylinders Four No. of cranks Four

of bearings, adjacent to the Crank, measured from inner edge to inner edge 380 mm Is there a bearing between each crank Yes

Revolutions per minute 300 Flywheel dia. 1900 mm Weight 2.5 tons Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 178 mm as fitted 185 mm Crank pin dia. 190 mm Crank Webs Mid. length breadth 300 mm Mid. length thickness 101 mm Thickness parallel to axis SOLID FORGED

Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 29 mm

Manufacturer governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced pumps scaped from Engines

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Working Water Pumps, No. None Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size Engine driven

Compressors, No. 3 No. of stages 3 Diameters 90/325/360 mm Stroke 280 mm Driven by Engine

Exhausting Air Pumps, No. Diameter Stroke Driven by

RECEIVERS: Is each receiver, which can be isolated, fitted with a safety valve as per Rule Fusible plugs

Are the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Ends portable

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. 3 Cubic capacity of each 35 litres Internal diameter 7 1/4 inches thickness 3/8 inches

Material Steel Range of tensile strength 29/33 Working pressure by Rules 1104

Low Pressure Air Receivers, No. 3 Total cubic capacity 150 litres Internal diameter 12 inches thickness 1/2 inches

Material Steel Range of tensile strength 29/33 Working pressure by Rules 1000

ELECTRIC GENERATORS: Type Two bearing open, drip proof, 6 poles Direct

Pressure of supply 220 volts Load 750 Amperes Direct or Alternating Current

Is the alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

Do the generators, do they comply with the requirements regarding rating Yes are they compound wound Yes with Interpoles

Are they over compounded 5 per cent. level compounding not compound wound state distance between each generator

Is an adjustable regulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

APPROVED PLANS. Are approved plans forwarded herewith for Shafting M. Lr. 31-3-28 Receivers Separate Tanks

PREPARED GEAR

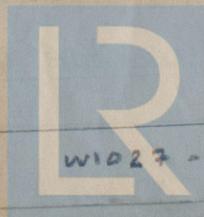
No per attached List  
K/69178

The foregoing is a correct description,

For W.H. ALLEN SONS & COMPANY LIMITED

Manufacturer.

Approved



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Lloyd's Register Foundation

W1027-0020

0212/2

Dates of Survey while building: During progress of work in shops - 1926, Dec. 29<sup>th</sup> 1927, May 18. 24. June. 1. 11. 14. 24 July 6. 14. 23. 29. Aug. 18 Sep. 8. 15  
 During erection on board vessel -  
 Total No. of visits 14 partial = 6 full.

Dates of Examination of principal parts - Cylinders 18-5-27; 1-6-27 24-5-27; 1-6-27 Covers 11-6-27; 14-7-27 Pistons 23-7-27; 29-7-27. Piston rods ✓  
 Connecting rods 29-12-26; 14-6-27 Crank and Flywheel shaft 24-6-27; 6-7-27; 14-7-27 Intermediate shaft ✓

Crank and Flywheel shaft, Material Steel Identification Mark See below Intermediate shaft, Material See below Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel Pacific Behance (L.R. No. 915)

General Remarks (State quality of workmanship, opinions as to class, &c.)  
Crank Shaft Identification Marks: -

| Engine A.   | Engine B.   | Engine C.   |
|-------------|-------------|-------------|
| LLOYDS TEST | LLOYDS TEST | LLOYDS TEST |
| 580         | 572         | 559         |
| J.P.        | J.P.        | J.P.        |
| LLOYDS TEST | LLOYDS TEST | LLOYDS TEST |
| 7620        | 7633        | 7619        |
| 31-8-26     | 20-10-26    | 31-8-25     |
| J.P.        | J.P.        | J.P.        |
| 14-7-27     | 24-6-27     | 6-7-27      |
| LR          | LR          | LR          |

This Machinery has been constructed under Special Survey in accordance with approved plans and Rule requirements. The workmanship and materials, so far as can be seen, are good and satisfactory bench trials have been carried out under survey. The three sets which are numbered 40410/A/B/C. have been despatched to Glasgow where they are to be installed and, in my opinion, will be eligible for inclusion in the Classification and record of +LMC of the vessel.

The amount of Fee ... £ 21-0-0 When applied for, 20 SEP 1927  
 Travelling Expenses (if any) £ 7-2-7 When received, 14th Oct 1927

Arthur A. Selmers.  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 6-DEC 1927  
 Assigned See Greenock Report N° 18809.

Rpt. 13.  
**REP**  
 Date of writing Report  
 No. in Surveyor's Reg. Book. 42275 on the  
 Built at  
 Owners The I.C.F. Co.  
 Electric Light  
 System of Distribution  
 Pressure of supply  
 Direct or Alternating  
 If alternating current  
 Has the Automati  
 Generators, do the  
 are they over compo  
 Where more than o  
 series with each shu  
 Are all terminals ac  
 short circuited, or to  
 Position of Gene  
 is the ventilation in  
 if situated near v  
 are their axes of ro  
 Earthing, are the  
 their respective gene  
 Main Switch Boar  
 a fuse on each insula  
 Switchboards, are  
 are they protected fro  
 woodwork or other co  
 are they constructed t  
 permanently high ins  
 with mica or micanite  
 and is the frame effec  
 Yes  
 bars YES  
 Main Switchgear,  
 EACH GEN?  
 EITHER DO  
 Instruments on ma  
 Earth Testing, sta  
 EACH  
 Switches, Circuit  
 Joint Boxes Secti

