

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

Date, First Survey

Dec. 29 1926

Last Survey

15 Sept 1927

Number of Visits

Survey held at

Bedford

Book.

on the

Single

Twin

Triple

Quadruple

Screw vessel

"PACIFIC ENTERPRISE"

Tons

Gross

Net

at

Glasgow

By whom built

Blythwood Ship Co. Ltd.

Yard No. 15

When built

1927

rs

Furness Withy & Co. Ltd.

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

rators 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

245 each

Nom. Horse Power as per Rule

210

Total Capacity of Generators

495 Kilowatts.

ENGINES, &c.

Type of Engines

Diesel (Burmester Main etc.)

4 stroke cycle

Yes Single or double acting S.A.

main pressure in cylinders

500 lbs

Diameter of cylinders

325"

Length of stroke

440"

No. of cylinders

Four

No. of cranks

Four

of bearings, adjacent to the Crank, measured from inner edge to inner edge

380"

Is there a bearing between each crank

Yes

utions per minute

300

Flywheel dia.

1900"

Weight

2.5 tons

Means of ignition

Compression

Kind of fuel used

Diesel oil

ank Shaft, dia. of journals

as per Rule

178"

Crank pin dia.

190"

Crank Webs

Mid. length breadth

300"

Mid. length thickness

101"

Thickness parallel to axis

SOLID FORGED

as fitted

185"

as fitted

as per Rule

as fitted

Thickness of cylinder liners

29"

as per Rule

as fitted

as fitted

as fitted

Wheel Shaft, diameter

as per Rule

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted

Thickness of cylinder liners

29"

as per Rule

as fitted

as fitted

as fitted

Manufacturer governor or other arrangement fitted to prevent racing of the engine when declutched

Yes

Means of lubrication

Forced, pumps forced from Engines

the cylinders fitted with safety valves

Yes

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Yes

ling Water Pumps, No.

None

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Yes

Means of lubrication

Forced, pumps forced from Engines

ricating Oil Pumps, No. and size

Engine driven

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Yes

Means of lubrication

Forced, pumps forced from Engines

Compressors, No.

3

No. of stages

3

Diameters

90/325/360"

Stroke

280"

Driven by

Engine

venting Air Pumps, No.

Yes

Diameter

Stroke

Driven by

Yes

Stroke

Driven by

Yes

Stroke

Driven by

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

Yes

What means are provided for cleaning their inner surfaces

Insible plugs

Ends portable

the internal surfaces of the receivers be examined

Yes

What means are provided for cleaning their inner surfaces

Yes

What means are provided for cleaning their inner surfaces

Yes

What means are provided for cleaning their inner surfaces

Yes

What means are provided for cleaning their inner surfaces

Yes

here a drain arrangement fitted at the lowest part of each receiver

Yes

What means are provided for cleaning their inner surfaces

Yes

What means are provided for cleaning their inner surfaces

Yes

What means are provided for cleaning their inner surfaces

Yes

What means are provided for cleaning their inner surfaces

Yes

gh Pressure Air Receivers, No.

3

Cubic capacity of each

35 litres

Internal diameter

7 1/4"

thickness

3/8"

Working pressure by Rules

1104

Working pressure by Rules

unless, lap welded or riveted longitudinal joint

Seamless

Material

Steel

Range of tensile strength

29/33

Working pressure by Rules

1104

Working pressure by Rules

1104

arting Air Receivers, No.

3

Total cubic capacity

150 litres

Internal diameter

12"

thickness

1/2"

Working pressure by Rules

1500

Working pressure by Rules

unless, lap welded or riveted longitudinal joint

Seamless

Material

Steel

Range of tensile strength

29/33

Working pressure by Rules

1500

Working pressure by Rules

1500

ELECTRIC GENERATORS:—Type

Two bearing open, drip proof, 6 poles

Direct

Direct or Alternating Current

Direct

Direct or Alternating Current

Direct

Direct or Alternating Current

Direct

Direct or Alternating Current

Pressure of supply

220 volts

Load

750

Amperes

Direct or Alternating Current

Direct

Direct or Alternating Current

Direct

Direct or Alternating Current

Direct

alternating current system, state frequency of periods per second

Yes

state frequency of periods per second

Yes

state frequency of periods per second

Yes

state frequency of periods per second

Yes

state frequency of periods per second

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

Yes

are they compound wound

Yes, with Interpoles

are they compound wound

Yes, with Interpoles

enerators, do they comply with the requirements regarding rating

Yes

are they compound wound

Yes, with Interpoles

are they compound wound

Yes, with Interpoles

are they compound wound

Yes, with Interpoles

are they compound wound

they over compounded 5 per cent.

level compounding

not compound wound state distance between each generator

Yes

are they compound wound

Yes, with Interpoles

are they compound wound

Yes, with Interpoles

are they compound wound

an adjustable regulating resistance fitted in series with each shunt field

Yes

are they compound wound

Yes, with Interpoles

are they compound wound

Yes, with Interpoles

are they compound wound

Yes, with Interpoles

are they compound wound

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

are the lubricating arrangements of the generators as per Rule

Dates of Survey while building { During progress of work in shops - - } 1926, Dec. 29th 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
11-6-27; 14-7-27 Covers 11-6-27 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 Identification Marks

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

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

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

Im. 7.28—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

Richard 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.

42376 on the

Built at

Owners THE 1st FUR

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 one

series with each shun

Are all terminals acco

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 Bo

a fuse on each insula

Switchboards, are

are they protected fro

woodwork or other co

are they constructed

permanently high ins

with mica or micanite

and is the frame effec

Yes

bars Yes

Main Switchgear,

EACH GEN?

EITHER DO

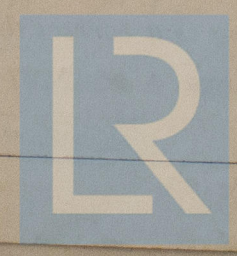
Instruments on ma

Earth Testing, sta

EACH

Switches, Circuit

Joint Boxes Secti



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Foundation