

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13605

Received at London Office

23 JAN 1937

e of writing Report

19

When handed in at Local Office

19

Port of BRISTOL

in Survey held at
Book.

DURLEY

Date, First Survey 15th Sept. 1936 Last Survey 15th Jan. 1937.

Number of Visits 4

Single
on the Twin
Triple
Quadruple

Screw vessel

Tons { Gross
Net

uilt at

By whom built

Yard No.

When built

wners

Port belonging to

l Engines made at

Gunsley

By whom made

A. G. Lister & Co.

Contract No.

382465

When made 1937

enerators made at

By whom made

Messrs. Vickers

Contract No.

23847B

When made

o. of Sets 14

Engine Brake Horse Power

14

Nom. Horse Power as per Rule

Total Capacity of Generators

15 Kilowatts.

L ENGINES, &c.—Type of Engines

C.E. Ailersen Injection

2 or 4 stroke cycle

4

Single or double acting

Single

Maximum pressure in cylinders

750 LBS

Diameter of cylinders

4.5

Length of stroke

4.275

No. of cylinders

Two

No. of cranks

Two

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

4 1/16

Is there a bearing between each crank

Yes

Revolutions per minute

1200

Flywheel dia.

23"

Weight

684 lbs

Means of ignition

Compression

Kind of fuel used

Diesel

Crank Shaft, dia. of journals

as per Rule 4 1/2

as fitted 2.775

Crank pin dia.

2.75

Crank Webs

Mid. length breadth 3.5

Thickness parallel to axis

shrunk

Mid. length thickness 1.11

Thickness around eyehole

Flywheel Shaft, diameter

as per Rule 2.25

Intermediate Shafts, diameter

as per Rule 2.25

Thickness of cylinder liners

.246

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

Yes

Means of lubrication

Forced oil pump

Are the cylinders fitted with safety valves

Yes

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

Yes

Cooling Water Pumps, No.

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.

No. of stages

Diameters

Stroke

Driven by

Cavenging Air Pumps, No.

Diameter

Stroke

Driven by

AIR RECEIVERS:—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

Compound wound

Pressure of supply

220

volts.

Load

32

Amperes.

Direct or Alternating Current

Direct

If 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

Generators, do they comply with the requirements regarding rating

Yes

are they compound wound

Yes

are they over compounded 5 per cent.

Yes

, if not compound wound state distance between each generator

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

Yes

PLANS. Are approved plans forwarded herewith for Shafting

No 24/10/34

Receivers

Separate Tanks

SHAFTING

SHAFTING

SHAFTING

SHAFTING

SHAFTING

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The foregoing is a correct description,

Per per A. G. Lister (Marine Sales Dept)

Manufacturer.



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Lloyd's Register
Foundation

W81-0092

Dates of Survey while building
During progress of work in shops - - - 1936 Sept. 15. Dec. 22. 1937 Jan. 18. 15 - 4 visits.
During erection on board vessel - - -
Total No. of visits

Dates of Examination of principal parts—Cylinders 15/9/36 Covers 15/9/36 Pistons 15/9/36 Piston rods ✓

Connecting rods 15/9/36 Crank and Flywheel shaft 15/9/36

Crank and Flywheel shafts, Material Steel

Intermediate shaft 660105 TEST
Identification Mark M 525 12/1/37 J.W.G.

Intermediate shafts, Material

Identification Marks

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.)

All parts of this engine have been examined before being assembled & found satisfactory.
It was afterwards tested on the test bed coupled to a Motor
Kerr Locomotive No 23847/B.

This set is stated to be for Messrs. Vickers Armstrongs
Yard No 726.

The amount of Fee ... £ 3 : 3

Travelling Expenses (if any) £ - :

When applied for,

22 Jan 1937.

When received,

19.2.37

20 20/2

John W. Guynne

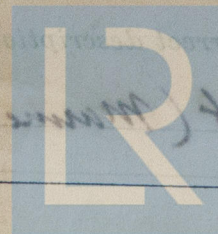
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 16 FEB 1937

Assigned

See minute on Bm 2645



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