

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 114706

Date of writing Report 7 FEB 1947

When handed in at Local Office 4 FEB 1947

Received at London Office 7 FEB 1947

Port of LONDON

No. in Survey held at DAGENHAM

Date, First Survey 6 December

Last Survey 23 December 1946

Reg. Book.

Number of Visits 3

Single  
on the Twin  
Triple  
Quadruple

Screw vessel

Tug.

CEMENCO

Tons { Gross.  
Net.

Built at By whom built

Yard No.

When built

Owners

Port belonging to

Oil Engines made at DAGENHAM

By whom made R.N. DIESEL ENGINE CO. LTD.

Contract No. D9

When made 1946

Generators made at

By whom made

Contract No.

When made

No. of Sets 1

Engine Brake Horse Power 9

M.N. as per Rule

Total Capacity of Generators

Kilowatts.

Is Set intended for essential services

OIL ENGINES, &amp;c.—Type of Engines INTERNAL PRE-COMBUSTION SOLID INJECTION

Maximum pressure in cylinders 860 LB/IN<sup>2</sup> Diameter of cylinders 4 1/8" Length of stroke 6" No. of cylinders 1 No. of cranks 1

Mean indicated pressure 105 lbs.

Firing order in cylinders

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 11/16"

Is there a bearing between each crank YES

Moment of inertia of flywheel (lb.-ft.<sup>2</sup> or Kg.-cm.<sup>2</sup>) 91500.

Revolutions per minute 1000

Flywheel dia. 25 ins.

Weight 336 lbs.

Means of ignition AIR

Kind of fuel used

Crank Shaft, dia. of journals

as per Rule 2.348

as fitted 2 5/8"

Crank pin dia. 2 3/8"

Crank Webs

Mid. length breadth 3 1/4"

Thickness parallel to axis ONE

Mid. length thickness 1 5/16"

Thickness round eyehole. PIECE

Flywheel Shaft, diameter

as per Rule NONE

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted NONE

General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

Are means provided to prevent racing of the engine when declutched YES

Means of lubrication FORCED

Kind of damper if fitted

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

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

Lubricating Oil Pumps, No. and size 1 9/16" dia.

PLUNGER x 0.32" STROKE (ENGINE SPEED)

Air Compressors, No. NONE

No. of stages

Diameters

Stroke

Driven by

Scavenging Air Pumps, No. NONE

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

Details of driven machinery other than generator

PLANS.—Are approved plans forwarded herewith for Shafting

(If not, state date of approval)

Receivers

Separate Tanks

Have Torsional Vibration characteristics if applicable been approved

(state date of approval)

Armature shaft Drawing No.

SPARE GEAR

Supplied by Altrincham to LLOYDS requirements and RN Standard

The foregoing is a correct description,

John Trustey

R.N. DIESEL ENGINE COMPANY.

Manufacturer.



© 2020

Lloyd's Register  
Foundation

008177-008185-0035



Dates of Survey while building { During progress of work in shops - - 6th, 7th and 23rd December, 1946.  
During erection on board vessel - -  
Total No. of visits 3 Plus

Dates of Examination of principal parts—Cylinders 23.12.46. Covers 6 & 7.12.46. Pistons 6.12.46. Piston rods NONE  
Connecting rods 6.12.46. Crank and Flywheel shafts 6.12.46. Intermediate shafts NONE

Crank shaft { Material Tensile strength LLOYDS  
Elongation Identification Marks 3972- 3/6/46 R3291 R.J.Y

Flywheel shaft, Material NONE Identification Marks NONE

Identification marks on Air Receivers NONE

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.)

This engine has been built under Special Survey of tested materials and the workmanship is good.  
The engine has been despatched to Altrincham where bench trials coupled to generator will be carried out.

The amount of Fee ... £ When applied for 19  
Travelling Expenses (if any) £ When received 19

Committee's Minute

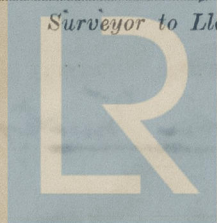
Assigned

FRI. 28 MAY 1948

Su F.E. mch. rpt.

Am. Seller

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation