

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9840

Date of writing Report

21 DEC 1939

When handed in at Local Office

30 DEC 1939

Port of

MANCHESTER

Received at London Office

JAN 2 1940

No. in Survey held at

ALTRINCHAM

Date, First Survey

19-10-39

Last Survey

16 DEC 1939

Reg. Book.

Single

Twin

Triple

Quadruple

Screw vessel

M. V. Ardennohr

Tons

Gross

Net

6025

2929

Built at

By whom built

N. DENNY & BROS.

Yard No.

1347

When built

Owners

Port belonging to

Oil Engines made at

ALTRINCHAM

By whom made

RUSSELL NEWBERRY

ENGINE

Contract No.

3496

When made

1939

Generators made at

DURSLEY, GLOS.

By whom made

MANLEY'S LTD.

Contract No.

808,1747

When made

1939

No. of Sets

ONE

Engine Brake Horse Power

9

Nom. Horse Power as per Rule

2.5

Total Capacity of Generators

5

Kilowatts.

OIL ENGINES, &c.—Type of Engines

VERTICAL SOLID INJECTION

2 or 4 stroke cycle

4

Single or double acting

SINGLE

Maximum pressure in cylinders

900 LBS/SQ IN

Diameter of cylinders

4.125"

Length of stroke

6

No. of cylinders

ONE

No. of cranks

ONE

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

6 5/8"

Is there a bearing between each crank

—

Revolutions per minute

1000

Flywheel dia.

25"

Weight

345 LBS

Means of ignition

COMPRESSION

Kind of fuel used

HEAVY OIL

Crank Shaft, dia. of journals

as per Rule

APPROVED

as fitted

2 3/8"

Crank pin dia.

2 3/8"

Crank Webs

Mid. length breadth

3 1/4"

Mid. length thickness

1 5/16"

shrink

Thickness parallel to axis

SOLID

Thickness around eyehole

—

Flywheel Shaft, diameter

as per Rule

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted

Thickness of cylinder liners

11/32"

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

YES

Means of lubrication

FORCED

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.

ONE

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

—

Lubricating Oil Pumps, No. and size

ONE

PLUNGER TYPE

9/16" DIA x 5/8"

Air Compressors, No.

—

No. of stages

—

Diameters

—

Stroke

—

Driven by

—

Scavenging Air Pumps, No.

—

Diameter

—

Stroke

—

Driven by

—

IR 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

110

volts.

Full Load Current

45.5

Amperes.

Direct or Alternating Current

DIRECT

If alternating current system, state the periodicity

—

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

YES

Generators, are they compounded as per rule

YES

is an adjustable regulating resistance fitted in series with each shunt field

—

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

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test

YES

and do the results comply with the requirements

YES

If the generators are 100 kw. or over have they been built and tested under survey

—

PLANS. Are approved plans forwarded herewith for Shafting

YES

Receivers

—

Separate Tanks

—

SPARE GEAR

AS PER RULE REQUIREMENTS

The foregoing is a correct description.

per pro. RUSSELL, NEWBERRY & Co.

Signature

Manufacturer.



Dates of Survey while building { During progress of work in shops - - } 1939 OCT 19. DEC 16  
{ During erection on board vessel - - - }  
Total No. of visits 4.

Dates of Examination of principal parts—Cylinders 19-10-39 Covers 19-10-39 Pistons 19-10-39 Piston rods —  
Connecting rods 19-10-39 Crank and Flywheel shafts 19-10-39 Intermediate shafts —  
Crank and Flywheel shafts, Material O.H. STEEL Identification Marks LLOYDS 9661 REC. 7739  
Intermediate shafts, Material — Identification Marks  
Identification marks on Air Receivers —

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 CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE ENGINE WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHewed SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.  
COPY OF TEST CERTIFICATE FOR GENERATOR IS ATTACHED.

The amount of Fee ... £ 4 : 4 : 0 } When applied for, 19. *Mc*  
Travelling Expenses (if any) £ : 6 : 0 } When received, 20. 19. *40. msi*

Committee's Minute

Assigned

*A. Leicester*  
Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register  
Foundation

Rpt. 13

Date of

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