

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10,847.

LIVERPOOL F.F. 117946

Date of writing Report

7 JAN 1942

When handed in at Local Office

Port of

Received at London Office

MANCHESTER

13 JAN 1942

24 JUN 1942

No. in Survey held at
Reg. Book.

KEIGHLEY

Date, First Survey

19 NOV 1941

Last Survey

5 JAN 1942

Number of Visits

3

Single
on the Twin
Triple
Quadruple
Screw vessel

RNAIR 2A

Tons { Gross
Net

Built at

NORTH NICH.

By whom built

W. J. ARWOOD & SONS (1938) LTD

Yard No.

668

When built

Owners

Port belonging to

Oil Engines made at

KEIGHLEY

By whom made

H. NIDDO & CO LTD

ENGINE

Contract No. 4116

When made

Generators made at

BELFAST

By whom made

H. J. SCOTT LTD

GENERATOR

Contract No. 39906

When made

No. of Sets ONE

Engine Brake Horse Power 45

Nom. Horse Power as per Rule 13

Total Capacity of Generators 15

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 700 LBS

Diameter of cylinders 6.25"

Length of stroke 6.25"

No. of cylinders 3

No. of cranks 3

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

6.5"

Is there a bearing between each crank YES

Revolutions per minute 1000

Flywheel dia. 25"

Weight 3.5 CWTs

Means of ignition COMPRESSION

Kind of fuel used HEAVY OIL

Crank Shaft, dia. of journals

as per Rule APPROVED

3.25"

Crank pin dia. 3.25"

Crank Webs

Mid. length breadth 4.25"

Thickness parallel to axis

SOLID

Mid. length thickness 1 5/8"

Thickness around eyehole

Flywheel Shaft, diameter

as per Rule

Intermediate Shafts, diameter

as per Rule

Thickness of cylinder liners

5/16"

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

1 3/5" DIA x 3/4" STROKE

Air Compressors, No.

No. of stages

Diameters

Stroke

Driven by

Scavenging Air Pumps, No.

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 220 volts

Full Load Current

68

Amperes

Direct or Alternating Current

DIRECT

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 YES

Generators, are they compounded as per rule

YES

is an adjustable regulating resistance fitted in series with each

unt 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

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

and do the results comply with the requirements

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

Are approved plans forwarded herewith for Shafting

13.11.1940

Receivers

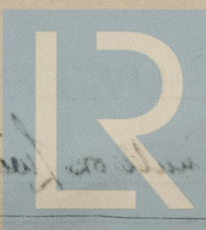
Separate Tanks

ARE GEAR AS PER RULE REQUIREMENTS

The foregoing is a correct description,

for H. NIDDO & CO

Manufacturer



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Lloyd's Register
Foundation

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Dates of Survey while building
During progress of work in shops - - 1941. Nov 19. Dec 26. 1942 Jan 5.
During erection on board vessel - - - 3.
Total No. of visits 3.
Dates of Examination of principal parts - Cylinders 19.11.41 Covers 19.11.41 Pistons 19.11.41 Piston rods -
Connecting rods 19.11.41 Crank and Flywheel shafts 19.11.41 Intermediate shafts -
Crank and Flywheel shafts, Material O.H. IN SOT STEEL Identification Marks LLOYDS 82. JAB. 30.1.41 ✓
Intermediate shafts, Material - Identification Marks -
Identification marks on Air Receivers -

Is this machinery duplicate of a previous case -/ES. If so, state name of vessel J. POLLOCK & SONS. 1/94. MCH RPT/10

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, SHOWN SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

Im 439.-Transfer. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minute.)

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

J. H. Porter
Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL
Assigned See Minute on Liverpool J.E. Machinery Rpt

23 JUN 1942



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