

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 171.

Date of writing Report

19

When handed in at Local Office

19

Received at London Office

2 - APR 1947

Port of

NOTTINGHAM.

No. in
Reg. Book.

Survey held at

Lincoln.

Date, First Survey

Last Survey

19

Single
on the Triple
Screw vessel

Trawler.

"Egill Raudi"

Number of Visits

Tons

Gross 648

Net 217.31

Built at

Aberdeen

By whom built

Alex. Hall & Co. Ltd.

Yard No. 716

When built 1947

Owners

Caledonian Government

Port belonging to

Neskaupstadur

Number of Oil Engines made at

Lincoln

By whom made

Ruston & Hornsby Ltd.

Contract No. 454705

When made 1947

Generators made at

By whom made

British Thomson-Houston Co. Ltd.

Contract No.

When made

No. of Sets

Engine Brake Horse Power

11.5

M.N. as per Rule

2.875

Ltd.

Total Capacity of Generators

5

Kilowatts.

Is Set intended for essential services

OIL ENGINES, &c.—Type of Engines 1VSHZ. Eng. No. 245199

2 or 4 stroke cycle

4 Single or double acting

SA

Maximum pressure in cylinders

850 lbs.

Diameter of cylinders

4 1/2"

Length of stroke

4 1/2"

No. of cylinders

1

No. of cranks

1

Mean indicated pressure

101.5 lbs.

Firing order in cylinders

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

5.1/2"

Is there a bearing between each crank

Yes

Total weight of flywheel

16 m² or Kg.-cm.²

Revolutions per minute

1500

Flywheel dia.

2 x 19 3/4"

Weight (2 wheels)

572 lb.

Means of ignition

Compression

Kind of fuel used

Diesel Oil.

Crank Shaft, dia. of journals

as per Rule. Approved

as fitted

23 3/8"

Crank pin dia.

23 3/8"

Crank Webs

Mid. length breadth

3 3/4"

Thickness parallel to axis

-

Flywheel Shaft, diameter

as per Rule

as fitted

Intermediate Shafts, diameter

as per Rule

as fitted

General armature, moment of inertia (16 m² or Kg.-cm.²)

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.

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

Lubricating Oil Pumps, No. and size

one 247

gallons per hour

engine driven

Air Compressors, No.

No. of stages

Diameters

Stroke

Driven by

Savenging Air Pumps, No.

Diameter

Stroke

Driven by

AIR RECEIVERS:—Have they been made under Survey

State No. of Report or Certificate

Each receiver, which can be isolated, fitted with a safety valve as per Rule

Are the internal surfaces of the receivers be examined

What means are provided for cleaning their inner surfaces

Are 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

Machine No. 82356D.9

Pressure of supply

220 volts

Full Load Current

22.7

Amperes

Direct or Alternating Current

D.C.

Is the alternating current system, state the periodicity

Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

and off

Yes

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

Are the generators shielded that they cannot be accidentally earthed, short circuited, or touched

Are the lubricating arrangements of the generators as per Rule

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

and do the results comply with the requirements

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

Are the tails of driven machinery other than generator

Air Compressor, Hamworthy No. 70454.

ANS.—Are approved plans forwarded herewith for Shafting

Standard Approved

Receivers

Separate Tanks

Are the Torsional Vibration characteristics if applicable been approved

(state date of approval)

Armature shaft Drawing No.

ARE GEAR

Ruston & Hornsby Limited,

The foregoing is a correct description,

Manufacturer.

Oil & Gas Engine Dept.



© 2020

Lloyd's Register
Foundation

007401-002109-0131

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits.

Dates of Examination of principal parts—Cylinders 3.5.46. Covers 3.5.46. Pistons 3.5.46. Piston rods -

Connecting rods 3.1.47. Crank and Flywheel shafts 3.1.47. Intermediate shafts

Crank shaft Material Steel. Tensile strength 40-45 Tons/sq.in.
Elongation Identification Marks LL.377 T.D.S. RD.3920.

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers

Certificates for air receivers to be forwarded with next duplicate vessel
CB Aberdeen

Is this machinery duplicate of a previous case Yes If so, state name of vessel Standard Type.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This engine has been built under Special Survey in accordance with the Approved Plans and the Regulations of the Society, material and workmanship being good.

On completion the set was tried in the Shops under working conditions and found to be satisfactory.

The set has been forwarded to Aberdeen for installation on board the vessel.

This engine has now been securely fitted on board the vessel, tried under working conditions & found satisfactory.

Clive Ross
Aberdeen

The amount of Fee ... £ 4 : 0 : 0 When applied for 31-3-1947.

Travelling Expenses (if any) £ : : When received 19

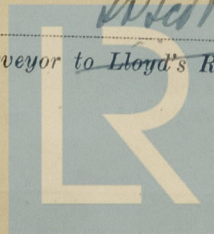
Committee's Minute

Assigned

See F.E. mch. rpt.

FRI. 1 AUG 1947

Surveyor to Lloyd's Register of Shipping.



© 2020

Lloyd's Register Foundation