

RECEIVED

19

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 Survey held at Lincoln. Date, First Survey... Last Survey 19... Number of Visits...

on the ^{Single} ~~Twin~~ ~~Triple~~ ^{Quadruple} Screw vessel. Trawler. "Egill Raudi"

Built at Aberdeen. By whom built Alex. Hall & Co. Ltd. Yard No. 716. When built 1947

Owners. Zelandic Government. Port belonging to Neskaupstadur

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 1. Engine Brake Horse Power 11.5. M.N. as per Rule 2.875. 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 (2 wheels) 980 lb. ft². 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. Crank pin dia. 2 3/8". Crank Webs Mid. length breadth 3 3/4". Thickness parallel to axis...

Flywheel Shaft, diameter as per Rule... Intermediate Shafts, diameter as per Rule... 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...

Scavenging 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 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...

Are all terminals accessible, clearly marked, and furnished with sockets... See Certificate & Rpt 13. 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...

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 Torsional Vibration characteristics if applicable been approved... Armature shaft Drawing No.

ARE GEAR... ? Spare Gear

Ruston & Hornsby Limited,
The foregoing is a correct description,
I have 26 III 47
Oil & Gas Engine Dept.



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 Bell
 Aberdeen*

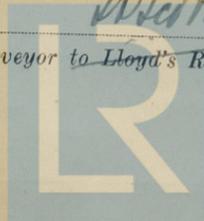
The amount of Fee ... £ 4 : 0 : 0 { When applied for 31-3-19 47.
 Travelling Expenses (if any) £ : : { When received 19

FRI. 1 AUG 1947

Committee's Minute.....

Assigned See F.E. mch. rpt.

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