

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 114708

Received at London Office FEB 1947

Date of writing Report 19... When handed in at Local Office 19... Port of LONDON

No. in Survey held at DAGENHAM Date, First Survey 6 December Last Survey 23 December 1946

Reg. Book. Single on the Twin Triple Quadruple Screw vessel SNOWCEM Number of Visits 3

Built at Menle By whom built H. Scarr Yard No. 510 When built 1948

Owners... Port belonging to 10-11

Oil Engines made at DAGENHAM By whom made R.N. DIESEL ENGINE CO. LTD. Contract No. D11 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 2.5 Total Capacity of Generators... Kilowatts.

Is Set intended for essential services...

OIL ENGINES, &c.—Type of Engines INTERNAL PRE-COMBUSTION SOLID INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 860 LB/IN² Diameter of cylinders 4 1/8" Length of stroke 6" No. of cylinders 1 No. of cranks 1

Mean indicated pressure 105 lbs. 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 (16 m² or Kg.-cm.²) 58800. Revolutions per minute 1000

Flywheel dia. 22 ins. Weight 276 lbs. Means of ignition AIR Kind of fuel used...

Crank Shaft, dia. of journals as per Rule 2.348 as fitted 2 3/8" Crank pin dia. 2 3/8" Crank Webs Mid. length breadth 3 1/4" Thickness parallel to axis NONE

Flywheel Shaft, diameter as per Rule NONE Intermediate Shafts, diameter as per Rule NONE General armature, moment of inertia (16 m² or Kg.-cm.²) as fitted...

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... Receivers... Separate Tanks...

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

SPARE GEAR

Supplied by Altrincham to LLOYDS requirements and RN Standard

The foregoing is a correct description,

John... Manufacturer.
R.N. DIESEL ENGINE COMPANY.

009311-009320-0193



© 2020

Lloyd's Register
Foundation

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
Elongation Identification Marks R 7944 LLOYDS -3508 F.H. 22-10

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 Compressor and pumping set will be carried out.

This engine, compressor, pump satisfactorily installed in motor tug 'SNOW CEM'.

For J.B. Goodwin,
N. Chambers.
Hull.

The amount of Fee ... £

Travelling Expenses (if any) £

When applied for 19

When received 19

Committee's Minute

Assigned

In units see J.E. Pfl

FRI. 19 MAR 1948

