

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Sld. No. 33210

No. 10/08.

30 1540

Date of writing Report 12th July 40 When handed in at Local Office 29 July 40 Port of MANCHESTER
 No. in Survey held at ASHTON-U. LYNE Date, First Survey 18th April 1940 Last Survey 8th July 1940
 Reg. Book. Single on the Twin Triple Quadruple Screw vessel M.V. ST. ESSYLT Number of Visits 14
 Tons Gross 5634 Net 3308

Built at _____ By whom built J. R. L. THOMPSON & SONS Yard No. 600 When built 1941
 Owners _____ Port belonging to _____
 Oil Engines made at ASHTON-U. LYNE By whom made NATIONAL GAS & OIL ENG CO ENGINES 44760
 Generators made at SUNDERLAND By whom made SUNDERLAND FORGE & ENG CO GENERATORS 44761 When made 1940
 No. of Sets THREE Engine Brake Horse Power 726 Nom. Horse Power as per Rule 208 Total Capacity of Generators 390 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/SQ IN Diameter of cylinders 8" Length of stroke 12" No. of cylinders 6 No. of cranks 6
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 10.125" Is there a bearing between each crank YES
 Revolutions per minute 550 Flywheel dia. 43" Weight 1800 LBS Means of ignition COMPRESSION Kind of fuel used HEAVY OIL
 Crank Shaft, dia. of journals as per Rule 5 5/8" Crank pin dia. 5 1/2" Mid. length breadth 7 1/4" Thickness parallel to axis SOLID
 as fitted 5 5/8" Crank Webs Mid. length thickness 2 3/8" Thickness around eyehole _____
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 5/8"
 as fitted _____ as fitted _____
 Is a governor or other arrangement fitted to prevent racing of the engine when decelerated 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 EACH ENGINE Is the sea suction provided with an efficient strainer which can be cleared within the vessel _____
 Lubricating Oil Pumps, No. and size ONE EACH ENGINE 743 GAUS PER HOUR EACH APPAR.
 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 291 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 _____

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 _____

PLANS. Are approved plans forwarded herewith for Shafting YES Receivers _____ Separate Tanks _____
 (If not, state date of approval)

SPARE GEAR AS PER RULE REQUIREMENTS

The foregoing is a correct description.

THE NATIONAL GAS AND OIL ENGINE Co. Ltd.

W. K. Russell

Manufacturer.



© 2021

Lloyd's Register
Foundation

W216-0105

Dates of Survey while building { During progress of work in shops - - } 1940. APRIL 18. 24. 25. 29. MAY 4. 8. 23. 29. 30. JUNE 10. 24. JULY 4. 7. 8.
{ During erection on board vessel - - }
Total No. of visits 14.

Dates of Examination of principal parts—Cylinders 24.4.40 25.4.40 8.5.40 Covers 24.4.40 25.4.40 8.5.40 Pistons 24.4.40 25.4.40 8.5.40 Piston rods -

Connecting rods 8.5.40 23.5.40 29.5.40 Crank and Flywheel shafts 25.4.40 8.5.40 Intermediate shafts -

Crank and Flywheel shafts, Material O.H. 1/20T STEEL Identification Marks 9917. NTM 14.2.40.

Intermediate shafts, Material Identification Marks 9916. NTM 15.10.89.

Identification marks on Air Receivers

Is this machinery duplicate of a previous case ☒ YES If so, state name of vessel "SILVER ASH"

General Remarks (State quality of workmanship, opinions as to class, &c.)

THESE ENGINES HAVE BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND ARE IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE GOOD AND THE ENGINES WHEN TESTED IN SHOP UNDER FULL LOAD CONDITION SHewed SATISFACTORY RESULTS. IN MY OPINION THESE ENGINES ARE SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

These sets have been efficiently fitted on board and tried under working conditions with satisfactory results.

L.R. Home.

Imp. 11.37.—Transfer. (MADE IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 25 : 0 : 0 When applied for, 27.7.40 shd.

Travelling Expenses (if any) £ 2 : 10 : 0 When received, 16.9.40 shd.

Committee's Minute

Assigned

FRI. 17 OCT 1941

See Std. J.C. 33210

L.R. Home.
Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register Foundation