

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9750

Date of writing Report 7-10-1939 When handed in at Local Office 14-10-1939 Port of MANCHESTER
No. in Survey held at MANCHESTER Date, First Survey 26-5-39 Last Survey 3-10-1939
Reg. Book. Number of Visits 5

Single on the Twin Triple Quadruple } Screw vessel "M.V. BEN HANN" Tons { Gross Net

Built at _____ By whom built ROWHEDGE IRONWORKS CO. Yard No. 585 When built 1939
Owners NATIONAL BENZOLE CO. LD Port belonging to _____

Oil Engines made at MANCHESTER By whom made L. GARDNER & SONS LD ENGINE Contract No. 46607 When made 1939
Generators made at SUNDERLAND By whom made SUNDERLAND FORGE & ENG. CO. GENERATOR Contract No. 9026 When made 1939

No. of Sets ONE Engine Brake Horse Power 9.5 Nom. Horse Power as per Rule 2.7 Total Capacity of Generators 5 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 650 lbs/sq in Diameter of cylinders 4.25" Length of stroke 6" No. of cylinders ONE No. of cranks ONE
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5.125" Is there a bearing between each crank -
Revolutions per minute 1000 Flywheel dia. 26" Weight 511 lbs Means of ignition COMPRESSION Kind of fuel used HEAVY OIL
Crank Shaft, dia. of journals as per Rule APPROVED as fitted 2 5/8" Crank pin dia. 2 5/8" Crank Webs Mid. length breadth 4" Mid. length thickness 1 3/8" Thickness parallel to axis SOLID Thickness around eyehole SOLID
Flywheel Shaft, diameter as per Rule _____ as fitted _____ Intermediate Shafts, diameter as per Rule _____ as fitted _____ Thickness of cylinder liners .096"

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 3/16" DIA. x 2" STROKE 28 G.P.H. APPROX

Air Compressors, No. ONE No. of stages 2 Diameters 4 1/2" x 1 7/8" Stroke 2 3/4" Driven by ENGINE
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 110 volts. Full Load Current 45.6 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 YES
Generators, are they compounded as per rule YES 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 YES
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 YES L10405. 67.39.
PLANS. Are approved plans forwarded herewith for Shafting YES Receivers _____ Separate Tanks _____

SHAFTING AS PER RULE REQUIREMENTS.

The foregoing is a correct description.
L. GARDNER & SONS LD.
William Gardner Manufacturer.
Director.

Dates of Survey while building: During progress of work in shops - 1939, MAY. 26, 30, JULY 21, 25, OCT. 3.
 During erection on board vessel - 5
 Total No. of visits - 5

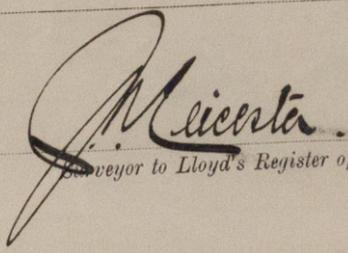
Dates of Examination of principal parts - Cylinders 26-5-39, Covers 30-5-39, Pistons 21-7-39, Piston rods -
 Connecting rods 21-7-39, Crank and Flywheel shafts 21-7-39, Intermediate shafts -
 Crank and Flywheel shafts, Material STEEL, Identification Marks LLOYDS, J.W.L. 9147 z. 23-12-39
 Intermediate shafts, Material - Identification Marks -
 Identification marks on Air Receivers -

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 AND COMPRESSOR HAVE 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 SET WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHewed SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE AND COMPRESSOR ARE SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

Im. 5.37 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 4 : 4 : 0 } When applied for, 14-10-1939 M.
 Travelling Expenses (if any) £ : 6 : 0 } When received, Paid at Manchester. 19...


 Surveyor to Lloyd's Register of Shipping.

TUE. 19 MAR 1940

Committee's Minute

Assigned

See Lon. J.C. 108410



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