

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 40405 6.7.39

PLANS. Are approved plans forwarded herewith for Shafting YES Receivers — Separate Tanks —

GEAR AS PER RULE REQUIREMENTS

The foregoing is a correct description.

L. GARDNER & SONS LD.

William Gardner

Manufacturer.

Director.



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Lloyd's Register
Foundation

W151-0131

Dates of Survey while building { During progress of work in shops - - 1939
 { During erection on board vessel - - - MAY. 26. 30. July 21. 25. Oct. 3.
 { 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.

1m.5.37.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

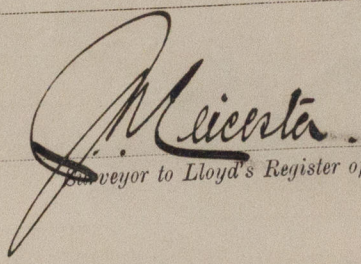
The amount of Fee ... £ 4 : 4 : 0 When applied for, 14-10-1939 M.
 Travelling Expenses (if any) £ : 6 : 0 When received, Paid at Manchester. 1939.

Committee's Minute

Assigned

TUE. 19 MAR 1940

See Lon. J.C. 108410


 Surveyor to Lloyd's Register of Shipping.

