

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9751

Received at London Office 15 OCT 1939

Date of writing Report 10-10-39 When handed in at Local Office 14-10-39 Port of MANCHESTER

No. in Survey held at MANCHESTER Date, First Survey 26-5-39 Last Survey 6-10-1939
Reg. Book. Number of Visits 4

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

Built at _____ By whom built ROWHEDGE IRONWORKS CO. Yard No. 585 When built _____

Owners NATIONAL BENZOLE CO. LD Port belonging to _____

Oil Engines made at MANCHESTER By whom made L. GARDNER & SONS LD ENGINE Contract No. 47535 When made 1939

Generators made at _____ By whom made _____ Contract No. _____ When made _____

No. of Sets ONE Engine Brake Horse Power 30 Nom. Horse Power as per Rule 8.5 Total Capacity of Generators _____ 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 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5-125" Is there a bearing between each crank YES

Revolutions per minute 1000 Flywheel dia. 22" Weight 304 LBS Means of ignition COMPRESSION Kind of fuel used HEAVY OIL

Crank Shaft, dia. of journals 2 5/8" as per Rule APPROVED Crank pin dia. 2 5/8" Mid. length breadth 4" Thickness parallel to axis SOLID
as fitted 2 5/8" Crank Webs Mid. length thickness 1 3/8" Thickness around eyehole _____

Flywheel Shaft, diameter _____ as per Rule _____ Intermediate Shafts, diameter _____ as per Rule _____ Thickness of cylinder liners 0.096"
as fitted _____ as fitted _____

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 GEAR TYPE 90 G.P.H. APPROX.

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 _____ volts. Full Load Current _____ Amperes. Direct or Alternating Current _____

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)

PAPE 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

W 151-0132

Dates of Survey while building
 During progress of work in shops - - 1939. MAY. 26. JULY 21. AUG 22. OCT 6.
 During erection on board vessel - - -
 Total No. of visits H.

Dates of Examination of principal parts—Cylinders 26.5.39 Covers 26.5.39 22.8.39 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 LLOYD'S. INL. 94552. 21-4-39.
 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 HAS 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 ENGINE WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHEWED SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

Im. 537. - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 4 : 4 : 0
 Travelling Expenses (if any) £ : 6 : 0
 When applied for, 14.10.39
 When received, Paid at Manchester 19.10.39

J. Meier
 Surveyor to Lloyd's Register of Shipping.

TUE 19 MAR 1940

Committee's Minute
 Assigned

See Jan 7.6 108410

