

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9152

FEB 12 1938

Date of writing Report 7-2-38 When handed in at Local Office 11-2-38 Port of MANCHESTER
 No. in Survey held at ASHTON U. LYNE Date, First Survey 6-1-38 Last Survey 2-2-1938
 Reg. Book. Single on the Twin Screw vessel Messrs F. SCHICHAU GRAH. ELBING YARD 140 Tons { Gross _____ Net _____
Triple
Quadruple

Built at _____ By whom built _____ Yard No. _____ When built _____
 Owners _____ Port belonging to _____
 Oil Engines made at ASHTON U. LYNE By whom made NATIONAL GAS & OIL ENGINE CO. Contract No. 50120 When made 1938
 Generators made at MANCHESTER By whom made LANCASHIRE DYNAMO & ELECTRO. CO. Contract No. 134553 When made 1938
 No. of Sets ONE Engine Brake Horse Power 28 Nom. Horse Power as per Rule 8 Total Capacity of Generators 15 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 630 LBS Diameter of cylinders 4 1/8" 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 4 25/32" Is there a bearing between each crank YES
 Revolutions per minute 1000 Flywheel dia. 25" Weight 340 LBS Means of ignition COMPRESSION Kind of fuel used HEAVY OIL
 Crank Shaft, dia. of journals as per Rule APPROVED Crank pin dia. 2 3/8" Mid. length breadth 3 1/4" Thickness parallel to axis SOLID
as fitted 2 3/8" Crank Webs Mid. length thickness 15/16" shrunk Thickness around eye-hole 3/8"
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3/8"
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 YES
 Cooling Water Pumps, No. ONE Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES
 Lubricating Oil Pumps, No. and size ONE GEAR TYPE 78 GALLS PER HOUR
 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 230 volts. Full Load Current 65.2 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 YES and do the results comply with the requirements YES
 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 YES
 (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. Limited,

AB. Balford, JUNIOR MANAGING DIRECTOR.

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015405-015416-0125

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Dates of Survey while building { During progress of work in shops - -)
{ During erection on board vessel - -)
Total No. of visits

6-1-38. 10-1-38. 2-2-38.

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Dates of Examination of principal parts—Cylinders 6-10-1-38. Covers 6-10-1-38 Pistons 6-1-38 Piston rods —

Connecting rods 6-1-38. Crank and Flywheel shafts 6-1-38 Intermediate shafts —

Crank and Flywheel shafts, Material STEEL. Identification Marks LLOYDS. 8502 M.A.B. 23-12-37

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 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 SHOWN SATISFACTORY RESULTS. IN MY OPINION THIS ENGINE IS SUITABLE TO BE PLACED ON BOARD A VESSEL CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

The amount of Fee ... £ 4 4:0 } When applied for, 11-2-38 M.
* Travelling Expenses (if any) £ 10:0 } When received, 14-4-38 E. 21.4

Committee's Minute

Assigned

TUE 28 FEB 1939

See Dn/3.E. 154

P. Meisner
Surveyor to Lloyd's Register of Shipping.



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