

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8971

95933

Date of writing Report JUNE 30 1937 When handed in at Local Office JULY 1st 1937 Port of MANCHESTER.
 Received at London Office JUL 28 1937
 No. in Survey held at ASHTON-U-LYNE Date, First Survey JUNE 3rd 1937 Last Survey JUNE 30 1937
 Reg. Book. 39204 on the Single Screw vessel MYTONGATE. Tons Gross 410
Triple Net 215
Quadruple

Built at NEWCASTLE By whom built Messrs. CLELANDS SUCCESSORS. Yard No. 36. When built 1937
 Owners HULLGATES SHIPPING CO. Port belonging to HULL

Oil Engines made at ASHTON-U-LYNE By whom made NATIONAL GAS & OIL ENGS. CO. LD ENGINE Contract No. 45326. When made 1937
 Generators made at MANCHESTER. By whom made LANCASHIRE DYNAMO & ELECTRIC CO. LD GENERATOR Contract No. 28039 When made 1937
 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 650. 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 3/4" 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 as fitted 2 3/8" Crank pin dia. 2 3/8" Crank Webs Mid. length breadth 3 1/4" Thickness parallel to axis SOLID
 as fitted 2 3/8" Mid. length thickness 1 5/16" shrunk Thickness around eyehole SOLID
 Flywheel Shaft, diameter as per Rule 3/8" as fitted 3/8" Intermediate Shafts, diameter as per Rule 3/8" as fitted 3/8" Thickness of cylinder liners 3/8"
 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 78. GALLS PER HR.
 Air Compressors, No. — No. of stages — Diameters — Stroke — Driven by —
 Scavenging Air Pumps, No. — Diameter — Stroke — Driven by —

AIR RECEIVERS:—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 136 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 —
 (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,

ASB

Manufacturer.

JOINT MANAGING DIRECTOR.



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Lloyd's Register

Foundation

16238

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

JUNE 3rd 9th & 30th 1937

3

Dates of Examination of principal parts—Cylinders 3-6-37 Covers 3-6-37 Pistons 3-6-37 Piston rods —
 Connecting rods 3-6-37 Crank and Flywheel shaft 9-6-37 Intermediate shaft —
 Crank and Flywheel shafts, Material STEEL Identification Mark LLOYDS 7801. M.A.B. 4-6-37.
 Intermediate shafts, Material — Identification Marks —
 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 RULES REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY AND THE ENGINE 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.

This engine has now been satisfactorily installed on board the above vessel & has been tried under working conditions + in my opinion is satisfactory for the purpose intended - viz supplying power for the electric winches

Newcastle
 14th Feb. 1938
 G. Dixon.

1m. 2.90.—Transfer.
 (The Survivors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ 4 : 4 : 0 When applied for, 1-7-37 M.
 Travelling Expenses (if any) £ 6 : 0 When received, 12-8-37

FRI. 18 FEB 1938

Committee's Minute
 Assigned Su Muc 95933

G. Dixon
 Surveyor to Lloyd's Register of Shipping.

(4) sheets not numbered