

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 8971

Received at London Office

JUL 15 1938

Date of writing Report JUNE 30 1937 When handed in at Local Office JULY 1<sup>st</sup> 1937 Port of MANCHESTER  
No. in Survey held at ASHTON U. LYNE Date, First Survey JUNE 3<sup>rd</sup> 1937 Last Survey JUNE 30 1937  
Reg. Book. Number of Visits 3

39204 on the Single Screw vessel MYTONGATE Tons { Gross 410  
SUP. { Triple Net 215  
Quadruple

Built at NEWCASTLE By whom built MESSRS. LELANDS 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 ENG. CO. LD ENGINE Contract No. 45326 When made 1937

Generators made at MANCHESTER By whom made LANCASHIRE DYNAMO CRYSTAL 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 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

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 —

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,

Manufacturer.



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Foundation



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

JUNE 3<sup>rd</sup> 9<sup>th</sup> & 30<sup>th</sup> 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 RULE 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

14<sup>th</sup> Feb. 1938

G. Dixon.

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

Micrate

Surveyor to Lloyd's Register of Shipping.



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