

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Sta. No. 33210
No. 10101

JUL 29 1940

Date of writing Report 12 July 40 When handed in at Local Office 26-7-40 Port of MANCHESTER
No. in Survey held at ASHTON-U. LYNE Date, First Survey 8-1-40 Last Survey 7 July 1940
Reg. Book. Single on the Twin Triple Quadruple Screw vessel M.V. ST. ESSYLT Tons Gross 5634 Net 3308
Built at By whom built J.R.L. THOMPSON & SONS Yard No. 600 When built 1940
Owners South American Steam Lines Port belonging to Hampart
Oil Engines made at ASHTON-U. LYNE By whom made NATIONAL GAS & OIL ENGINE CO Contract No. 53925 When made 1940
Generators made at — By whom made — Contract No. — When made —
No. of Sets ONE Engine Brake Horse Power 9.25 Nom. Horse Power as per Rule 2.64 Total Capacity of Generators — Kilowatts.

IL ENGINES, &c.—Type of Engines VERTICAL SOLID INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE
Maximum pressure in cylinders 750 LBS/SQ. IN. Diameter of cylinders 4.125" 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. 22.5" Weight 235 LBS Means of ignition COMPRESSION Kind of fuel used HEAVY OIL
Crank Shaft, dia. of journals as per Rule APPROVED 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" Thickness around eye-hole —
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 84 GALLS PER HOUR APPROX.
Air Compressors, No. ONE No. of stages TWO Diameters 4 1/4" & 1 3/4" Stroke 3 3/4" Driven by AUX 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 — 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 —
hunt 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 — Receivers — Separate Tanks —
(If not, state date of approval) —
SHAFTING. AS PER RULE REQUIREMENTS

The foregoing is a correct description,

THE NATIONAL GAS AND OIL ENGINE Co., Ltd.

Manufacturer.



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W216-0104

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

1940 JAN 8. JUNE 6. 15. JULY 4. 7

Dates of Examination of principal parts—Cylinders 8-1-40 Covers 8-1-40 Pistons 8-1-40 Piston rods -

Connecting rods 6-6-40 Crank and Flywheel shafts 6-6-40 Intermediate shafts ✓

Crank and Flywheel shafts, Material O.H. STEEL Identification Marks 640425 / 204. M. 66-40

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 ARE 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 SHOWN 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.

This set has been efficiently fitted on board and tried under working conditions with satisfactory results.

L.R. Home

The amount of Fee ...

£ 5 : 5 : 0

When applied for,

26-7-40

Travelling Expenses (if any) £

: 15 : 0

When received,

16-9-19

Committee's Minute

Assigned

FRI. 17 OCT 1941

See Mtd. G.E. 33210



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