

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Sld. No 32593

No. 9487

Date of writing Report JAN 25 1939. When handed in at Local Office 2 FEBRUARY 1939. Port of MANCHESTER
 No. in Survey held at ASHTON-U. LYNE. Date, First Survey 5TH DEC. 1938 Last Survey 21ST JANUARY 1939.
 Reg. Book. Number of Visits 8

on the Single
Twin
Triple
Quadruple } Screw vessel "SILVER LAUREL"
 Built at SUNDERLAND. By whom built J. L. THOMPSON & SONS, LTD. Yard No. 588. When built 1939.

Owners Port belonging to
 Oil Engines made at ASHTON-U. LYNE. By whom made NATIONAL GAS & OIL ENGINE CO. ENGINES Contract No. 44688/9. When made 1939.
 Generators made at SUNDERLAND. By whom made SUNDERLAND FORGE & ENG. CO. GENERATORS Contract No. F6628/9. When made 1939.
 No. of Sets TWO. Engine Brake Horse Power 220. Nom. Horse Power as per Rule 63. Total Capacity of Generators 120. 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 700 LBS/SQ IN. Diameter of cylinders 8". Length of stroke 12". No. of cylinders 3. No. of cranks 3.
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9 13/32". Is there a bearing between each crank YES.
 Revolutions per minute 500. Flywheel dia. 43". Weight 2150 LBS. Means of ignition COMPRESSION. Kind of fuel used HEAVY OIL.
 Crank Shaft, dia. of journals as per Rule APPROVED. 5 5/8". Crank pin dia. 5 1/2". Crank Webs Mid. length breadth 7 1/4". Thickness parallel to axis SOLID.
 as fitted 5 5/8". Mid. length thickness 2 3/8". Thickness around eyehole
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 5/8".
 as fitted

Is a governor or other arrangement fitted to prevent racing of the engine when decelerated 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. EACH ENGINE. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size ONE. EACH ENGINE. APPROX. 450 GALLS PER HOUR.

Air Compressors, No. — No. of stages — Diameters — Stroke — Driven by —

Scavenging Air Pumps, No. — Diameter — Stroke — Driven by —

IR RECEIVERS:—Have they been made under Survey YES. State No. of Report or Certificate BIRMINGHAM, C. 879.

Is each receiver, which can be isolated, fitted with a safety valve as per Rule YES.
 Can the internal surfaces of the receivers be examined YES. What means are provided for cleaning their inner surfaces.
 Is there a drain arrangement fitted at the lowest part of each receiver YES.

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. TWO. Total cubic capacity 11 CUB FT. Internal diameter 19". thickness 3/8".

Seamless, lap welded or riveted longitudinal joint RIVETED Material STEEL Range of tensile strength 28/32 TONS Working pressure by Rules

ELECTRIC GENERATORS:—Type

Pressure of supply 220. volts. Full Load Current 213. 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 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

LAWS. Are approved plans forwarded herewith for Shafting YES. Receivers YES. Separate Tanks YES.
 (If not, state date of approval)

SHAFTING ARE PER RULE REQUIREMENTS.

The foregoing is a correct description.

THE NATIONAL GAS AND OIL ENGINE Co. Limited,

Manufacturer.

A. B. Balford, JOINT MANAGING DIRECTOR.

W261-0088



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Dates of Survey while building { During progress of work in shops - - } 1938. DEC. 5. 8. 19., 1939. JAN. 13. 16. 18. 19. 21.
{ During erection on board vessel - - }
Total No. of visits 8.

Dates of Examination of principal parts—Cylinders 13-1-39. Covers 13-18-1-39. Pistons 13-18-1-39. Piston rods —
Connecting rods 13-1-39 Crank and Flywheel shafts 13-1-39. Intermediate shafts —
Crank and Flywheel shafts, Material STEEL. Identification Marks LLOYDS 9458, 9459. SER. 6-1-39.
Intermediate shafts, Material — Identification Marks —
Identification marks on Air Receivers 25605. 25606.
LLOYDS NO 676. LLOYDS NO 677.
11-1-39. H.M.C. 11-1-39. H.M.C.

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.)

THESE ENGINES 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 GOOD QUALITY AND WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS THE ENGINES GAVE SATISFACTORY RESULTS. IN MY OPINION THESE ENGINES ARE SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

The amount of Fee ... £ 10 : 10 : 0 When applied for, 22. 19. 39 M.L.
Travelling Expenses (if any) £ 1 : 1 : 0 When received.
SPECIAL LATE FEE 1 : 1 : 0 13. 4. 19. 39 8/4

Committee's Minute TUE. 21 MAR 1939
Assigned See F.E. machy rpt.

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



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