

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 106269

Date of writing Report Aug 5<sup>th</sup> 1938 When handed in at Local Office Aug 5<sup>th</sup> 1938 Port of London  
No. in Survey held at hewbury Date, First Survey 12 July 1938 Last Survey 27 July 1938  
Reg. Book. Number of Visits Four

on the Single Screw vessel M/V. SODALITY. Tons { Gross \_\_\_\_\_ Net \_\_\_\_\_  
Built at Grange, Workington By whom built R. Williamson & Son Ltd. Yard No. \_\_\_\_\_ When built 1938  
Owners S. J. Curran & Sons Ltd. Port belonging to \_\_\_\_\_  
Oil Engines made at hewbury By whom made hewbury Diesel Co. Ltd. Contract No. 709 When made 1938  
Generators made at howich By whom made Lawrence, Scott & Elect. Co. Ltd. Contract No. \_\_\_\_\_ When made 1938  
No. of Sets 1 Engine Brake Horse Power 100 Nom. Horse Power as per Rule \_\_\_\_\_ Total Capacity of Generators 40 Kilowatts.

**ENGINES, &c.**—Type of Engines HIGH SPEED. HAND STARTING 2 or 4 stroke cycle 4 Single or double acting S.A.  
Maximum pressure in cylinders 800. Diameter of cylinders 105 7/8 Length of stroke 152 7/8 No. of cylinders 6 No. of cranks 6  
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 134 7/8 Is there a bearing between each crank YES  
Revolutions per minute 1000 Flywheel dia. 25" Weight 380 LBS Means of ignition COMPRESSION Kind of fuel used HEAVY OIL.  
Crank Shaft, dia. of journals as per Rule 60.6 1/8 as fitted 62 1/8 Crank pin dia. 62 1/8 Crank Webs Mid. length breadth 84 1/8 Thickness parallel to axis \_\_\_\_\_  
Flywheel Shaft, diameter as per Rule \_\_\_\_\_ as fitted CRANKSHAFT. Intermediate Shafts, diameter as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ Thickness around eyehole \_\_\_\_\_  
Thickness of cylinder liners 9.5 1/8

Is a governor or other arrangement fitted to prevent racing of the engine when declutched YES. Means of lubrication GEAR PUMP.  
Are the cylinders fitted with safety valves No. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material LAGGED.  
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 1 GEAR TYPE PUMP. 2 GALLS. PER MIN. CAPACITY.  
Air Compressors, No. one. No. of stages Two. Diameters 110 + 45 1/8 Stroke 82 1/8 Driven by Engine Friction Clutch.  
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 ENCLOSED TYPE. CONTINUOUS RATING. (MACHINE No. 77419).  
Pressure of supply 220 volts. Full Load Current 82 182 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 shaft field \_\_\_\_\_  
Are all terminals accessible, clearly marked, and furnished with sockets YES.  
Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched YES. 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 APPLIED FOR. 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 YES. Receivers \_\_\_\_\_ Separate Tanks \_\_\_\_\_  
**SHAFTING GEAR** See attached list.

The foregoing is a correct description,  
THE NEWBURY DIESEL Co. LTD.

[Signature] Manufacturer.  
SECRETARY,



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Foundation  
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Dates of Survey while building { During progress of work in shops - - } <sup>12 19</sup> JULY 21<sup>ST</sup>. & 27<sup>TH</sup>.  
 { During erection on board vessel - - - } ✓  
 Total No. of visits FOUR (In Shops)

Dates of Examination of principal parts—Cylinders JULY 20 & 27. Covers JULY 20 & 27. Pistons JULY 20 & 27. Piston rods ✓

Connecting rods JULY 20 & 27. Crank and Flywheel shaft JULY 20 & 27. Intermediate shaft -

Crank and Flywheel shafts, Material F.I. STEEL. Identification Mark ✓

Intermediate shafts, Material ✓. Identification Marks ✓

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Standard Heavy Duty Diesel Engine

General Remarks (State quality of workmanship, opinions as to class, &c.) The above engine was built under Special Survey, & the materials are sound & the workmanship good. The cylinder heads & crank case were tested to hydraulic pressures as required by the Rules & found satisfactory. The engine was examined under shop trials & found satisfactory, & has been dispatched to Gool for fitting on board vessel, where the necessary tests will be effected.

Im. 2, 38.—Transfer. (The surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... .. £	✓ : ✓ :	When applied for,
		19
Travelling Expenses (if any) £	✓ : - :	When received,
		19

J. L. Smith.  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 21 OCT 1938  
 Assigned See minute on H. mach.

