

RECEIVED  
17 NOV 1943

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 111,523

Received at London Office 12 NOV 1943

Date of writing Report Oct 25<sup>th</sup> 43 When handed in at Local Office 12 NOV 1943 Port of London

No. in Survey held at humbury Date, First Survey 13 MAY Last Survey 14 OCTOBER 1943  
Reg. Book. Number of Visits 10

on the Single Triple Quadruple Screw vessel

"AMENITY"

Tons } Gross  
          } Net

Built at Gaole By whom built Gaole S.B. Reps Co. Ltd Yard No. 395 When built 1943

Owners F.J. Everard & Sons Ltd. Port belonging to London

Oil Engines made at humbury By whom made humbury Diesel Co. Contract No. 788-9 When made 1943

Generators made at humbury By whom made Lammie Scott & Co. Contract No. 91050 When made 1943

No. of Sets 2 Engine Brake Horse Power 40 (EACH) Nom. Horse Power as per Rule  Total Capacity of Generators 45 Kilowatts.

OIL ENGINES, &c.—Type of Engines Compression Ignition 4 stroke cycle Single or double acting Single

Maximum pressure in cylinders 700 lbs Diameter of cylinders 135 mm Length of stroke 200 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 172 mm Is there a bearing between each crank yes

Revolutions per minute 1000 Flywheel dia. 634 mm Weight 598 lb Means of ignition Compass Kind of fuel used Paul Gas Oil

Crank Shaft, dia. of journals as per Rule As approved as fitted 85 mm Crank pin dia. 80 mm Crank Webs Mid. length breadth 125 mm Thickness parallel to axis shrunk as fitted 43 mm Mid. length thickness 43 mm Thickness around eyehole shrunk

Flywheel Shaft, diameter as per Rule C.S. 85 mm as fitted 85 mm Intermediate Shafts, diameter as per Rule shrunk as fitted shrunk Thickness of cylinder liners 9.5 mm

Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Lubricated

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 one - 90 galls. per hour

Air Compressors, No. one one wholly No. of stages two Diameters 52 + 120 mm Stroke 100 mm Driven by Engines

Scavenging Air Pumps, No. one Diameter shrunk Stroke shrunk Driven by Engines

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes (but none to ship)

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. none Cubic capacity of each shrunk Internal diameter shrunk thickness shrunk

Seamless, lap welded or riveted longitudinal joint  Material shrunk Range of tensile strength shrunk Working pressure by Rules shrunk

Starting Air Receivers, No. shrunk Total cubic capacity shrunk Internal diameter shrunk thickness shrunk

Seamless, lap welded or riveted longitudinal joint  Material shrunk Range of tensile strength shrunk Working pressure by Rules shrunk

ELECTRIC GENERATORS:—Type Enclosed, drip proof, Compound wound approved type

Pressure of supply 220 volts. Full Load Current ENG. 489 - 91 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 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  (certificates applied for)

PLANS. Are approved plans forwarded herewith for Shafting Standard Type Receivers shrunk Separate Tanks shrunk

SPARE GEAR Please see attached lists

19/11/43

The foregoing is a correct description on behalf of THE NEWBURY DIESEL Co. LTD. [Signature] Manufacturer. SECRETARY.

MAY 13-20 JULY 1.22

Dates of Survey while building { During progress of work in shops - - } Aug 5<sup>th</sup>. Sept. 9, 23, 30. Oct. 4-14.  
{ During erection on board vessel - - - }  
Total No. of visits 10 (incl. shops)

Dates of Examination of principal parts—Cylinders Sept. 9, 23. Covers Sept. 9, 23. Pistons Sept. 9. Piston rods -

Connecting rods Sept. 30. Crank and Flywheel shaft Sept. 9<sup>th</sup>. Intermediate shaft -

Crank and Flywheel shafts, Material S.M.O.H.S. Identification Mark ✓

Intermediate shafts, Material - Identification Marks -

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Standard type B Suiou.

General Remarks (State quality of workmanship, opinions as to class, &c.) The above engines have been built under Special Survey, and the materials & workmanship are satisfactory

In my opinion the engines are suitable to be fitted in the vessel for which they are intended, - being tested after installation to the satisfaction of the Society's Surveyors.

Im. 2, 86.—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 JAN 1944  
Assigned see minute on J.E. Rpt.

