

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 25th 43

When handed in at Local Office

12 NOV 1943

Port of London

No. in Survey held at Reg. Book.

humbury

Date, First Survey 13 May

Last Survey 14 OCTOBER 1943

Number of Visits 10

Single
on the Twin
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. 188-9. When made 1943.

Generators made at humbury By whom made Lammie Scott & Co. Contract No. 91055. 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 *Camshaft in Ignition* 4 stroke cycle Single or double acting *Single*

Maximum pressure in cylinders 700 lb/sq. in. Diameter of cylinders 135 in. Length of stroke 200 in. No. of cylinders 2 No. of cranks 2.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 142 in. Is there a bearing between each crank *Yes.*

Revolutions per minute 1000 Flywheel dia. 634 in. Weight 598 lb. Means of ignition *Camshaft* Kind of fuel used *Paraffin oil.*

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

Flywheel Shaft, diameter as per Rule *C.S. 85 in.* Intermediate Shafts, diameter as per Rule *As fitted.* Thickness of cylinder liners 9.5 in.

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 *Lagged.*

Cooling Water Pumps, No. *One.* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *Yes.*

Lubricating Oil Pumps, No. and size *one - 90 galls. per hour.*

Air Compressors, No. *one* *one* *one* No. of stages *Two.* Diameters 52 + 120 in. Stroke 100 in. Driven by *Engines*

Scavenging Air Pumps, No. *one* Diameter *52 in.* Stroke *100 in.* 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 *Yes.* What means are provided for cleaning their inner surfaces *Yes.*

Is there a drain arrangement fitted at the lowest part of each receiver *Yes.*

High Pressure Air Receivers, No. *none.* 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, 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 *Yes.* 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 *Yes.* 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 *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 *Yes.* (Certificates applied for)

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

SPARE GEAR *Please see attached lists.*

The foregoing is a correct description on behalf of THE NEWBURY DIESEL CO. LTD.

Manufacturer.

SECRETARY.



© 2021

Lloyd's Register Foundation

013917-013926-0015

May 13-20 July 1.22

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

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. 28.—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
Assigned
FRI. 21 JAN 1944
see minute on J.E. Rpt.