

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 54511.

Date of writing Report 19... When handed in at Local Office **JAN 1948** 19... Port of **Hull** Received at London Office **9 - JAN 1948**

No. in Survey held at: **Hull** Date, First Survey **15.9.47.** Last Survey **30-10-1947.**
 Reg. Book. **06910** on the **Single** Screw vessel **'EMPIRE CONLEA'** Number of Visits **17.**

Built at **Rendsberg** By whom built **Werft Nobiskrug** Yard No. When built **1939**

Owners. Port belonging to **London**

Oil Engines made at **A.G. KÖLN** By whom made **Humboldt-Deutz Motoren** ENGINE Contract No. **78297** When made **1939**

Generators made at By whom made Contract No. When made

No. of Sets **1** Engine Brake Horse Power **10** Nom. Horse Power as per Rule Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines **Diesel** 2 or 4 stroke cycle **4** Single or double acting **Single**

Maximum pressure in cylinders Diameter of cylinders **3 15/16"** Length of stroke **5 3/4"** No. of cylinders **1** No. of cranks **1**

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge **14" (approx)** Is there a bearing between each crank

Revolutions per minute **1500** Flywheel dia. **29 1/2"** Weight Means of ignition **Compression** Kind of fuel used **Light diesel**

Crank Shaft, dia. of journals as per Rule **2 1/2"** as fitted Crank pin dia. **2 1/2"** Crank Webs Mid. length breadth **4 1/8"** Thickness parallel to axis
 Mid. length thickness **2 3/8" shrunk** Thickness round eye-hole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners **Not available**

Is a governor or other arrangement fitted to prevent racing of the engine when declutched **Yes** Means of lubrication **oil 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. **1** Is the sea suction provided with an efficient strainer which can be cleared within the vessel **No**

Lubricating Oil Pumps, No. and size **No independent pump**

Air Compressors, No. **1** No. of stages **2** Diameters **1" 2 3/4"** Stroke **2 1/2** Driven by **Aux. diesel engine**

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey **No** State No. of Report or Certificate

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 **Removable head**

Is there a drain arrangement fitted at the lowest part of each receiver **Internal pipe fitted**

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. **1 (aux.)** Total cubic capacity **30 LTR.** Internal diameter **8"** thickness **.21"**

Seamless, lap welded or riveted longitudinal joint **Seamless** Material **Steel** Range of tensile strength Working pressure by Rules **527 lb**

ELECTRIC GENERATORS:—Type **Enclosed**

Pressure of supply **110** volts. Full Load Current Amperes Direct or Alternating Current **Direct**

Is an alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown 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 shielded that they cannot be accidentally earthed, short circuited, or touched **Yes** Are the lubricating arrangements of the generators as per Rule **Yes**

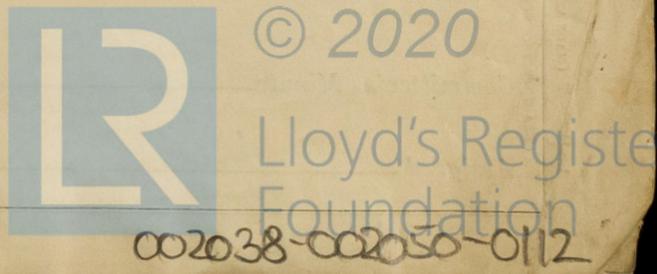
Do the generators are under 100 kw. full load rating, have the makers supplied certificates of test **No** and do the results comply with the requirements

Do 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 **Yes** Separate Tanks **Yes**

SHAFTING AND GEAR
 Spares as required by Rules.

The foregoing is a correct description,
 Manufacturer.



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

Dates of Examination of principal parts—Cylinders..... Covers..... Pistons..... Piston rods.....

Connecting rods..... Crank and Flywheel shafts..... Intermediate shafts.....

Crank shaft { Material..... Tensile strength.....
 Elongation..... Identification Marks.....

Flywheel shaft, Material..... Identification Marks.....

Is this machinery duplicate of a previous case..... Identification Marks.....

Identification marks on Air Receivers.....

9. LFD NR 57048
 30 LTR.
 BETR DR 30 ATM.
 PROBDRUK 60 ATM.
 PROBE N° 1012
 92 12-9-37

Is this machinery duplicate of a previous case..... No..... If so, state name of vessel.....

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

See report 9. of 17-11-47

Im. 11.42.-T (MADE AND PRINTED IN ENGLAND).
 (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.....

Committee's Minute.....

Assigned.....

See minute on report

N. Chambers.
 Surveyor to Lloyd's Register of Shipping.



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