

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 54511.

Date of writing Report 19... When handed in at Local Office 7 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 CONLER' Number of Visits 17.
 Built at Rendsburg 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 $3\frac{15}{16}$ " Length of stroke $5\frac{3}{4}$ " 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. $29\frac{1}{2}"$ Weight Means of ignition Compression Kind of fuel used Light diesel
 Crank Shaft, dia. of journals as per Rule as fitted $2\frac{1}{2}"$ Crank pin dia. $2\frac{1}{2}"$ Crank Webs Mid. length breadth $4\frac{1}{8}"$ Thickness parallel to axis
 Mid. length thickness $2\frac{3}{8}"$ shrunk $3/4"$ Thickness round eye-hole
 Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted 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 $1"$ $2\frac{3}{4}"$ Stroke $2\frac{1}{2}"$ 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
 Are the generators under 100 kw. full load rating, have the makers supplied certificates of test No and do the results comply with the requirements
 Are the generators 100 kw. or over have they been built and tested under survey
TRANS.—Are approved plans forwarded herewith for Shafting Yes Receivers Yes Separate Tanks Yes
 (If not, state date of approval)
ARE GEAR
 Spares as required by Rules.

The foregoing is a correct description,

Manufacturer.



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002038-002050-0112

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.
PROBDRÜCK 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.)

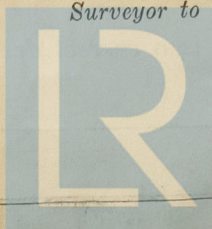
The amount of Fee ... £ : : { When applied for.....19.....
Travelling Expenses (if any) £ : : { When received.....19.....

Committee's Minute.....

Assigned.....

See minute on report

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



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