

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 853

Received at London Office

Writing Report NOV. 12 1943 When handed in at Local Office Dec. 28 1944 Port of CHICAGO, ILLINOIS

Survey held at BELOIT, WISCONSIN Date, First Survey OCT. 5th Last Survey OCT. 14th 1943

Book. Single on the Twin Triple Quadruple Screw vessel MINESWEEPER (M.M.S. 1055) Tons Gross Net

By whom built Yard No. When built

Port belonging to

Engines made at BELOIT, WISCONSIN By whom made FAIRBANKS MORSE & COMPANY ENG. NO. 848098 When made 1943

Generators made at By whom made Contract No. When made

of Sets 1 Engine Brake Horse Power 60 Nom. Horse Power as per Rule 10 Total Capacity of Generators Kilowatts.

ENGINES, &c.—Type of Engines vertical diesel 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 800 I.P. 103.4 Diameter of cylinders 4 1/4" Length of stroke 6" No. of cylinders 6 No. of cranks 6

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 4 3/4" Is there a bearing between each crank YES

Revolutions per minute 1200 Flywheel dia. 20" Weight 246 LBS. Means of ignition COMPRESSION Kind of fuel used FUEL OIL

Crank Shaft, dia. of journals as per Rule 2.4" as fitted 3" Crank pin dia. 2.747" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis

as per Rule 3" Mid. length thickness 1 1/2" shrunk Thickness around eyehole

Flywheel Shaft, diameter as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 5/16"

Is a governor or other arrangement fitted to prevent racing of the engine when declutched YES Means of lubrication FUEL OIL FORCED

Are the cylinders fitted with safety valves NO Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Boiling Water Pumps, No. 1 - 11.5 GPM RECIPROCATING Is the sea suction provided with an efficient strainer which can be cleared within the vessel

1 - 32 GPM CENT. Lubricating Oil Pumps, No. and size 1 - 6.5 GPM - ROTARY

Compressors, No. No. of stages Diameters Stroke Driven by

Exhausting Air Pumps, No. Diameter Stroke Driven by

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

Each receiver, which can be isolated, fitted with a safety valve as per Rule

Are 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

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

Working Air Receivers, No. Total cubic capacity Internal diameter thickness

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

ELECTRIC GENERATORS:—Type

Pressure of supply volts Full Load Current Amperes Direct or Alternating Current

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 on and off 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

Labels 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 If the generators are under 100 kw. full load rating, have the Makers supplied

Certificates of test and do the results comply with the requirements If the generators are 100 kw. or over have they been

Tested and tested under survey

Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

(If not, state date of approval)

RE GEAR SUPPLIED AS REQUIRED BY THE RULES

The foregoing is a correct description,

W. Fish, Asst Chief Inspector For Manufacturer.



© 2020

Lloyd's Register Foundation

003434-003443-0215

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

OCTOBER 5, 14, 1943

Dates of Examination of principal parts—Cylinders OCT. 5, 1943 Covers DITTO Pistons DITTO Piston rods Connecting rods DITTO Crank and Flywheel shafts Intermediate shafts Crank and Flywheel shafts, Material STEEL Identification Marks N-307-J-G-59 Intermediate shafts, Material Identification Marks Identification marks on Air Receivers

ENGINE NO.

Is this machinery duplicate of a previous case 845438 If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

The above mentioned dynamo engine was built to this Society's special survey requirements of materials and in accordance with approved plans.

On completion the dynamo engine was tried out at the Manufacturer's works at low, intermediate full, and overload break test loads, under governor control, with satisfactory results.

The material and workmanship is of good quality.

Crankshaft forging report same as Engine No. 845438.

This dynamo diesel engine has been forwarded to the Canadian Fairbanks Morse Company, Ltd., Montreal, Quebec, Canada, for installation, and when this has been done in accordance with the rules and the satisfaction of the Society's surveyor, the machinery will be eligible, in my opinion, to receive the notation OIL ENG. AND LMC (with date).

Halifax, Nova Scotia, December 28th, 1944.

This electric generating set (Engine No. 848098) has now been installed on board "M.M.S." to comply with the Rules, approved plans and the British Admiralty Specification. The workmanship throughout is good and the machine together with the electric generator, air compressor and generator service pump have been tested under full working conditions and found satisfactory.

The machinery of the vessel is now eligible, in my opinion, to receive the notation L.M.C. (R) 11-44.

Surveyor to Lloyd's Register.

Surveyor to Lloyd's Register of Shipping.

The amount of Fee £ 40.00

Travelling Expenses (if any) £ 5.00

When applied for, Nov. 12, 43

When received,

19

Committee's Minute

FRI. 9 FEB 1945

Assigned

Su F.E. machy. rpt.



© 2020

Lloyd's Register Foundation