

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 853

4c.

Writing Report July 12, 1937 when handed in at Local Office

Received at London Office

APR -8 1940

Port of Cleveland, Ohio.

Survey held at Grove City, Pa.

Date, First Survey May 18th

Last Survey June 7th 1937

Book.

Number of Visits 4

297

Single
Twin
Triple
Quadruple

Screw vessel

Yacht "MOANA"

Tons { Gross
Net

at Brooklyn, N. Y.

By whom built Todd Shipyards Corp.

Yard No.

When built 1926

Mr. William B. Leeds

Port belonging to Oyster Bay, L.I., N. Y.

Engines made at Grove City, Pa. By whom made Cooper Bessemer Corp.

Engine No. 1201
Contract No. 1258

When made 1937

rators made at " " "

By whom made " " "

Contract No.

When made

of Sets 2

Engine Brake Horse Power each 78

Nom. Horse Power as per Rule 37.5

Total Capacity of Generators 100 Kilowatts.

ENGINES, &c.—Type of Engines Cooper Bessemer Type EN 3 2 or 4 stroke cycle 4 Single or double acting S.

um pressure in cylinders 700#/sq. in. Diameter of cylinders 8"

Length of stroke 10-1/2

No. of cylinders 3

No. of cranks 3

f bearings, adjacent to the Crank, measured from inner edge to inner edge

8-1/2" approx.

Is there a bearing between each crank Yes

tions per minute 450

Flywheel dia. 45"

Weight .45 tons

Means of ignition Comp.

Kind of fuel used Diesel Oil

Shaft, dia. of journals as per Rule 4.45"

as fitted 5.5"

Crank pin dia. 5.5"

Crank Webs

Mid. length breadth 7"

Thickness parallel to axis -

Mid. length thickness 2-1/2" shrunk

Thickness around eyehole -

Steel Shaft, diameter as per Rule -

as fitted -

Intermediate Shafts, diameter as per Rule -

as fitted -

Thickness of cylinder liners 5/8"

governor or other arrangement fitted to prevent racing of the engine when declutched Yes

Means of lubrication

Forced Feed

cylinders fitted with safety valves No

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material -

ing Water Pumps, No. 1 - Gear Type

35 G.P.M.

Is the sea suction provided with an efficient strainer which can be cleared within the vessel -

ating Oil Pumps, No. and size 1 - Gear Type

14.5 G.P.M.

connecting rods 21

Compressors, No. -

No. of stages -

Diameters -

Stroke -

Driven by -

be shaft

aging Air Pumps, No. -

Diameter -

Stroke -

Driven by -

men bolts

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

ditions 12 Aug

internal surfaces of the receivers be examined -

What means are provided for cleaning their inner surfaces -

Mark

a drain arrangement fitted at the lowest part of each receiver -

Marks

Pressure Air Receivers, No. -

Cubic capacity of each -

Internal diameter -

thickness -

Mark

s, lap welded or riveted longitudinal joint -

Material -

Range of tensile strength -

Working pressure by Rules -

ing Air Receivers, No. -

Total cubic capacity -

Internal diameter -

thickness -

s, lap welded or riveted longitudinal joint -

Material -

Range of tensile strength -

Working pressure by Rules -

with

TRIC GENERATORS:—Type Westinghouse, Type SK Marine Serial Nos. 4846205 and 4783825

re of supply 125

volts.

Load 480

Amperes.

Direct or Alternating Current

D.C.

ating current system, state frequency of periods per second -

seen, is in

Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Yes

dock, sea

tors, do they comply with the requirements regarding rating

Yes

are they compound wound

Yes

in foss. em

over compounded 5 per cent. Yes

, if not compound wound state distance between each generator -

their top +

adjustable regulating resistance fitted in series with each shunt field

Yes

Are all terminals accessible, clearly marked, and furnished with sockets

Yes

examined +

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

tested to

Are approved plans forwarded herewith for Shafting

Yes

Receivers

Separate Tanks

-

tested to

GEAR To Rule requirements. (See engine maker's list attached to this report.)

may tested

rekenally

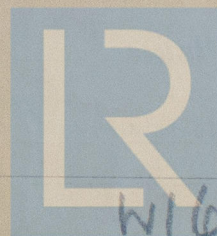
my spin

gfr.

Register of Ship

the foregoing is a correct description,

(ed) D. L. Gallogly for Cooper- Bessemer Corp. manufacturer.



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Lloyd's Register

W16HE-0259

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 5/18/37 Covers 5/18/37 Pistons 5/18/37 Piston rods
Connecting rods 5/18/37 Crank and Flywheel shaft 5/18/37 Intermediate shaft
Crank and Flywheel shafts, Material O. H. Steel Identification Mark LLOYDS 3107 LLOYDS 3083
3/30/37 WJF 3/4/37 WJF
Intermediate shafts, Material - Identification Marks -

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

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

The above mentioned engines (two) have been built under Special Survey and on completion were tested, coupled to generators, under full and intermediate loads in the shop. The materials and workmanship were found to be sound and efficient and the electrical load tests satisfactory. Attached hereto is copy of crank shaft drawing and crank shaft forging certificates Nos. 3107 and 3083.

Rpt. 13.

RE

Date of writing Report

No. in Survey by Reg. Book.

3822 on the AM VT. REGA

Built at Stock

Owner's W

Electric Light Ins

Is the Vessel fitted

System of Distrib

Pressure of supply f

Direct or Alternat

If alternating curren

Has the Automatic

Generators, do they

are they over compoun

Where more than one

series with each shunt

approved

Have certificates for g

Are all terminals acce

short circuited, or tou

Position of Gener

in way of the gener

woodwork or other co

are the generators pro

Earthing, are the

in metallic contact

a fuse on each insula

Switchboards, are

injury and damage f

horizontally from or

materials

is it of an approved

non-hygroscopic insu

type

omnibus bars

"off" position

switches

3 pole switch

Are turbine driven g

fire-resisting materia

voltmeters 2

Select we

do these comply wit

The amount of Fee ... \$150.00

When applied for, 7/20/1937

Travelling Expenses (if any) \$19.00

When received, 23.8.1937

(signed) G. Drummond.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK MAR 20 1940

Assigned

Transmit to London



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