

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS, No. 853

No. 853

Received at London Office

Date of writing Report July 12, 1937 When handed in at Local Office 10 Port of Cleveland, Ohio.

No. in Survey held at Grove City, Pa. Date, First Survey May 18th, Last Survey June 7th, 1937
Reg. Book. 3 for Number of Visits 4

on the Single Twin Triple Quadruple Screw vessel Yacht "MOANA" ex "Stranger" (See Crisp) Tons Gross Net

Built at Brooklyn, N.Y. By whom built Todd Shipyards Corp. Yard No. When built 1926

Owners Mr. William B. Leeds Port belonging to Oyster Bay, L.I. N.Y.

Oil Engines made at Grove City, Pa. By whom made Cooper Bessemer Corp. Engine 1201 ~~Contract~~ No. 1258 When made 1937

Generators made at " " By whom made " " Contract No. When made

No. of Sets 2 Engine Brake Horse Power each 78 Nom. Horse Power as per Rule 37.5 Total Capacity of Generators 100 Kilowatts.

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

Maximum pressure in cylinders 700#/SQ. In. Diameter of cylinders 8" Length of stroke 10-1/2" No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 8-1/2" Is there a bearing between each crank Yes

Revolutions per minute 450 Flywheel dia. 45" Weight Approx. 45 tons Means of ignition Comp. Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule 4.45" Crank pin dia. 5.5" Crank Webs Mid. length breadth 7" Thickness parallel to axis -

as fitted 5.5" Crank Webs Mid. length thickness 2-1/2" Thickness around eyehole -

Flywheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 5/8"

as fitted - Intermediate Shafts, diameter as fitted - Thickness of cylinder liners 5/8"

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced Feed

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

Cooling 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 -

Lubricating Oil Pumps, No. and size 1 - Gear Type 14.5 G.P.M.

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

Scavenging Air Pumps, No. - Diameter - Stroke - Driven by -

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

Can 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 -

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 Westinghouse, Type SK Marine Serial Nos. 4846205 and 4783825

Pressure of supply 125 volts. Load 480 Amperes. Direct or Alternating Current D.C.

If alternating current system, state frequency of periods per second 60 Hz

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

Generators, do they comply with the requirements regarding rating Yes are they compound wound Yes

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator -

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

PLANS. Are approved plans forwarded herewith for Shafting Yes Receivers - Separate Tanks -

(If not, state date of approval)

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

The foregoing is a correct description.

D. L. Gallogly for Cooper-Bessemer Corp. Manufacturer.



Date of survey
 Date of work in shop
 Date of drawing executed in
 board room
 Total No. of parts

Dates of Examination of principal parts—Cylinders 3/18/37 Cranks 3/18/37

Connecting rods 3/18/37 Crank and Flywheel shafts 3/18/37

Crank and Flywheel shafts, Material **O.H. Steel** Identification Mark **3/30/37 WJF 3/4/37**

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.

The amount of Fee ... **x \$150.00** : When applied for, **7/20/19 37**
 Travelling Expenses (if any) **x \$ 19.00** : When received, **7/10/19 37**

G. Drummond
 Surveyor to Lloyd's Register of Shipping.

NEW YORK AUG 4 - 1937

Committee's Minute

Assigned Transmit to Hudson

Write byk (S.M.) Requesting advice when fee paid



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Im. 0.28 - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)