

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 5006

Received at London Office 3-AUG 1948

Writing Report JUNE 19 48 When handed in at Local Office JUNE 19 48 Port of GALVESTON TEXAS

Survey held at GALVESTON TEXAS Date, First Survey 26th MAY 48 Last Survey JUNE 19 48

Number of Visits _____
 Single }
 on the Twin } Screw vessel SS MESA VERDE Tons { Gross 10640
 Triple } Net 6313
 Quadruple }

at PORTLAND OREGON By whom built KAISER CO INC Yard No. 99 When built 1944-11
 BRITISH TANKERS CO Port belonging to LONDON

Engines made at CHICAGO ILL By whom made VENN SEVERN MACHY CO Contract No. V5817 When made 1944

Generators made at MANSFIELD OHIO By whom made IDEAL ELECTRIC MFG CO Contract No. 124528 When made 1944

of Sets ONE Engine Brake Horse Power 190 Nom. Horse Power as per Rule ✓ Total Capacity of Generators 75 Kilowatts.

ENGINES, &c.—Type of Engines AUXILIARY DIESEL V CYLINDER BLOCK 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders ✓ Diameter of cylinders _____ Length of stroke _____ No. of cylinders 6 No. of cranks 3

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 8 7/16" Is there a bearing between each crank YES

Revolutions per minute 900 Flywheel dia. ✓ Weight ✓ Means of ignition COMPRESSION Kind of fuel used DIESEL

Crank Shaft, dia. of journals as per Rule _____ as fitted _____ Crank pin dia. 5" Crank Webs Mid. length breadth 7" Thickness parallel to axis _____
 as per Rule 5 1/2" Intermediate Shafts, diameter as per Rule _____ as fitted _____ Thickness of cylinder liners _____
 Mid. length thickness 1 5/16" FORGED WITH BOLTED BALANCE THICKNESS AROUND EYEHOLE WEIGHTS

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 YES

Sea Water Pumps, No. ONE Is the sea suction provided with an efficient strainer which can be cleared within the vessel RADIATOR CLOSED SYSTEM.

Communicating Oil Pumps, No. and size ONE

Compressors, No. TWO No. of stages TWO Diameters 5 + 5 + 4" Stroke 4" Driven by ELE MOTORS
 5 + 3" 3 1/2"

Engining Air Pumps, No. _____ Diameter _____ Stroke _____ Driven by _____

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

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

Are the internal surfaces of the receivers be examined YES What means are provided for cleaning their inner surfaces MAN HOLE

Is there a drain arrangement fitted at the lowest part of each receiver YES

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 ✓

Low Pressure Air Receivers, No. ONE Total cubic capacity 30 CF Internal diameter 30" thickness ✓

Seamless, lap welded or riveted longitudinal joint WELDED Material OH STEEL Range of tensile strength 55 000 Working pressure by Rules 125 LBS

ELECTRIC GENERATORS:—Type _____

Voltage of supply 450 volts. Full Load Current 120 Amperes. Direct or Alternating Current A.C.

Is it an alternating current system, state the periodicity 60/62 Has the Automatic Governor been tested and found as per rule when full load is suddenly

put on and off YES Generators, are they compounded as per rule _____ is an adjustable

resistance fitted in series with each shunt field _____ Are all terminals accessible, clearly marked, and furnished with

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

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

tested under survey ✓

Are approved plans forwarded herewith for Shafting ✓ Receivers ✓ Separate Tanks ✓
 (If not, state date of approval)

TO RULE REQUIREMENTS

Note the two air compressors with one air receiver detailed above are intended for Combustion Control + General Services.

The foregoing is a correct description, ✓

Manufacturer. _____



List of the Plans should be embodied.

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... 8 JUNE 48 Crank and Flywheel shaft... 8 JUNE 48 Intermediate shafts... ✓

Crank and Flywheel shafts, Material... OH STEEL Identification Marks... ✓

Intermediate shafts, Material... ✓ Identification Marks... ✓

Identification marks on Air Receivers... STEEL PIPE & TANK CO N°158. AB 2-29.44. HEH. 423 SWP 125 LBS

USCG JAC 55000. T.P. 250 LBS

Is this machinery duplicate of a previous case... YES If so, state name of vessel... SS ESSO NORMANDIE.

General Remarks (State quality of workmanship, opinions as to class, &c.) This Emergency Generating Unit was constructed under the supervision of Surveyors to the American Bureau of Shipping. The condition and standard of materials and workmanship are considered good and satisfactory.

The diesel engine coupled direct to the generator, was found in good condition. Tied out under various loads and governing controls also with automatic control to main switchboard with satisfactory results.

Rpt. 13.

RE

Date of writing Report.

No. in Surveyor's Reg. Book. 29246

Built at... PORT...

Owners... BRIT...

Installation fitted

Is vessel equipped for... COOKING Heating... 230

Prime Movers, has with a trip switch... YES 40 in parallel... SETS

test for machines u

Position of Genera

is the ventilation in

damage from water

GENERATOR

are they in accessib

steam and oil... YES

material is it an Ap

per Rule... ✓

for each generator

WITH OVERLO

D.P. LINKED B

and the switch and

BREAKERS

Are compartments c

ammeters... 5

protection devices

LAMPS

Switches, Circuit B

make of fuses... (R

overload do they op

Joint Boxes, Sectio

Cables, are they ins

state maximum fal

area of 0.01 squar

cables sealed at th

high temperatures

adequately protecte

or of the "HR" typ

BASKETWEAV

CABLES IN A

PROPULSION

Are all lead sheath

bulkheads provided

effectively bushed...

1M-8-46-Transfer. (Printed in U. S. A.)

(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

J. Bloomfield
Surveyor to Lloyd's Register of Shipping.

Committee's Minute... NEW YORK JUL 14 1948

Assigned... See 1st Entry Rpt. attached

