

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 5028

Received at London Office

12 JAN 1949

of writing Report 25th Oct 1948 When handed in at Local Office 25th Oct 1948 Port of Galveston, Texas

Survey held at Galveston, Texas Date, First Survey 26th April Last Survey 20th August, 1948

696 on the Twin Screw vessel M/V "JOBURE" Number of Visits 3 Tons Gross 3437 Net converted

Galveston, Texas By whom Todd Shipyards Corp. Yard No. When 1948

The Texas Company Port belonging to Guirra Port P-28225

Engines made at Springfield, Ohio By whom made The National Supply Co. Contract No. Cent. P-28220 When made 1945

Generators made at Detroit, Mich. By whom made Delco Products Div. Gen. Motors Contract No. When made 1945

No. of Sets 3 Engine Brake Horse Power 152 Nom. Horse Power as per Rule - Total Capacity of Generators 300 Kilowatts. 100 each

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

Maximum pressure in cylinders 800 lbs. Diameter of cylinders 5 1/2" Length of stroke 7" No. of cylinders 8 No. of cranks 8

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4" Is there a bearing between each crank Yes

Revolutions per minute 1200 Flywheel dia. 24" Weight Means of ignition Full Diesel Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule as fitted 4.4975" Crank pin dia. 3.4975 Crank Webs Mid. length breadth 8" Thickness parallel to axis 1 1/2"

Flywheel Shaft, diameter as per Rule as fitted 4.4975 Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 5/8"

Is there a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Full Pressure

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

Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 1 - 2" attached on each engine

Air Compressors, No. None No. of stages - Diameters - Stroke - Driven by -

Scavenging Air Pumps, No. None Diameter - Stroke - Driven by -

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

Is each receiver, which can be isolated, fitted with a safety valve as per Rule None Battery started

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 -

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 Delco Products

Pressure of supply 120/240 volts. Full Load Current 417 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 on 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

Terminals 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 Yes not available and do the results comply with the requirements - If the generators are 100 kw. or over have they been

Tested Yes U.S.N. Bureau of Ships

ANS. Are approved plans forwarded herewith for Shafting No Receivers - Separate Tanks -

ARE GEAR In excess of rule requirements

The foregoing is a correct description,

Todd Shipyards Corporation (Galveston Division)

Manufacturer.



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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 and Flywheel shafts, Material Identification Marks Intermediate shafts, Material Identification Marks Identification marks on Air Receivers

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

General Remarks (State quality of workmanship, opinions as to class, &c. Now generally examined (see Galveston Report 5028) and to be efficiently installed and found securely fitted in vessel. Particulars and arrangements verified and so far as seen found in accordance with the particulars shown on this form in general conformity with the Society's Rules. Machinery tried and tested under working conditions and found to be in good and safe working conditions.

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

James L. Lloyde Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK DEC 22 1948

Assigned See First Entry Report attached