

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 1348

Received at London Office

11 AUG 1949

Report 19... When handed in at Local Office 19... Port of Cleveland, Ohio

Survey held at St. Louis, Missouri Date, First Survey Feb. 4 Last Survey May 26 19 49

M.T. ISLAS GEORGIAS Number of Visits 14

Single on the Twin Triple Quadruple } Screw vessel Argentine Vessel Hull No. 113 Diesel Generator Sets Tons { Gross - Net -

Uddevalla, Sweden By whom built Uddevallavarvet Aktiebolag Yard No. 113 When built -

Yacimientos Petroliferos Fiscales of Argentina Port belonging to

made at St. Louis, Mo. By whom made Busch-Sulzer Bros. Engine 9236-0096

made at Erie, Pa. By whom made Burke Electric Co. Generator 9236-0103

4 Engine Brake Horse Power 465 Nom. Horse Power as per Rule Total Capacity of Generators 1280 Kilowatts

INES, &c. Type of Engines Trunk piston solid injection supercharged Buchi system 2 or 4 stroke cycle 4 Single or double acting Single

pressure in cylinders 570 psi Diameter of cylinders 9" Length of stroke 11.5" No. of cylinders 7 No. of cranks 7

ings, adjacent to the Crank, measured from inner edge to inner edge 3.937" 10 1/16" 9 1/16" Is there a bearing between each crank Yes

per minute 600 Flywheel dia. 30.5 Weight 1200 lb Means of ignition Compress Kind of fuel used Diesel Oil

ft, dia. of journals as per Rule - as fitted 7" Crank pin dia. 6" Crank Webs Mid. length breadth 11" Thickness parallel to axis -

Shaft, diameter as per Rule - as fitted - Intermediate Shafts, diameter as per Rule - Thickness around eyehole -

or or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Pressure

inders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material -

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

g Oil Pumps, No. and size 1 - 7" dia. impeller: 1 hand pump

essors, No. - No. of stages - Diameters - Stroke - Driven by Exhaust

g Air Pumps, No. one Diameter Buchi type exhaust Stroke turbo charger Driven by Turbine

EIVERS: Have they been made under Survey - State No. of Report or Certificate -

iver, which can be isolated, fitted with a safety valve as per Rule -

ernal surfaces of the receivers be examined - What means are provided for cleaning their inner surfaces -

rain arrangement fitted at the lowest part of each receiver -

sure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

p welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

ir Receivers, No. - Total cubic capacity - Internal diameter - thickness -

p welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

C GENERATORS: Type 2 Wire, compound, drip proof, single bearing, direct coupled, Class B

supply 230 volts Full Load Current 1391 Amperes Direct or Alternating Current D.C. insulation.

g current system, state the periodicity - Has the Automatic Governor been tested and found as per rule when full load is suddenly

nd off Yes Generators, are they compounded as per rule Yes is an adjustable

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

Yes Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes

icating arrangements of the generators as per Rule Yes If the generators are under 100 kw. full load rating, have the Makers supplied

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

ted under survey Yes

Are approved plans forwarded herewith for Shafting Receivers Separate Tanks

AR To Rule Requirements. See attached Busch Sulzer list of Spare Parts.

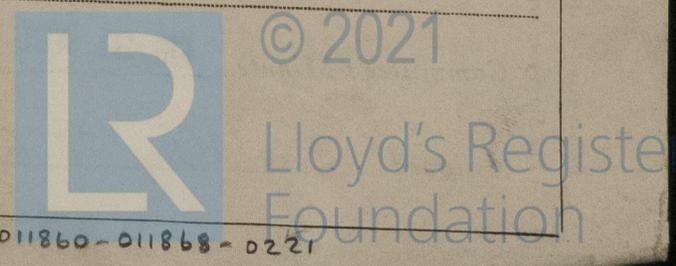
Personal vibration characteristics of the shafting installation

of this auxiliary machinery approved in the Secretary's letter

dated 20-10-48 for a service speed of 600 R.P.M.

foregoing is a correct description,

Manufacturer.



Dates of Survey while building { During progress of work in shops -- Feb. 4, 19, 26; Mar. 10, 16, 24, 28; April 8, 14, 22, 28; May 6, 12, 26, 1949.
 { During erection on board vessel ---
 Total No. of visits 14

Dates of Examination of principal parts—Cylinders Apr. 28, 1949 Covers Apr. 28, 1949 Pistons Apr. 28, 1949 Piston rods

Connecting rods May 16, 1949 Crank and Flywheel shafts May 16, 1949 Intermediate shafts
 Crank and Flywheel shafts, Material O.H. Steel, Forged Identification Marks LLOYDS 5916, LLOYDS 5936
 L.R. 1177, L.R. 1179
 Intermediate shafts, Material O.H. Steel, Forged Identification Marks L.R. 1178, L.R. 1180
 Identification marks on Air Receivers -

Is this machinery duplicate of a previous case - If so, state name of vessel Sister Vessels - Hulls 111/112

General Remarks (State quality of workmanship, opinions as to class, &c. These auxiliary engines and generators were constructed under Special Survey in accordance with the Rules of this Society and approved plan. The materials tested by the Society's Surveyors and the quality of same and workmanship is good throughout.

On completion, each engine was brake tested at Busch-Sulzer Bros. Works, St. Louis, Missouri, under full and 10% overload power and found satisfactory. The governor controls were tested and found efficient. On completion of running tests the working parts were examined and found in good condition. Each generator was tested under full and 25% overload at the Works of Burke Electric Co., Erie, Pa., and the results found satisfactory.

The Generators were shipped to St. Louis and mounted with their respective engines on a common fabricated sub base. The couplings and alignment checked and found good on each.

The completed units have been shipped to the shipbuilders, Uddevalla, Sweden, for installation in vessels intended for classification with this Society and it is recommended that this auxiliary machinery be included in the vessel's record of LMC (with date), subject to being installed and tested under working conditions to the satisfaction of the Society's Surveyors.

Attached to this report are copies of the certificate, forging reports, generator reports and spare parts lists, also approved drawings of the crankshafts, connecting rods and armature shaft

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 £ \$550.00 : { When applied for, July 26 1949
 Travelling Expenses (if any) £ \$250.00 : { When received, 19

R. S. Haagenesen
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 31 AUG 1951**

Assigned *See Mch. F.E. Rpt.*



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Lloyd's Register Foundation

Rpt. 13.
 Date of writing Report
 Survey No. in Reg. Book. .91089..... on
 Built at
 Owners.....
 Electrical Inst
 Is vessel fitted
 Have plans been
 Heating.....
 has the governing
 trip switch as per
 if not compound
 arranged to run
 Negative
 test for machines
 of the generators
 generator: I
 near unprotected
 injury and dam
 contact Yes
 are they in acces
 and oil Yes
 material is used
 semi-insulating
 Is the construct
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 Are compartmen
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 equaliser connec