

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

Single on the Twin Triple Quadruple } M.T. ISLAS GEORGIAS Number of Visits 14
Screw vessel Argentine Vessel Hull No. 113 Diesel Generator Sets Tons { Gross - Net -

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

Vacimientos 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 9236-0102 Contract No. 9236-0103 When made 1949

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 - as fitted - 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.



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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 59166 LLOYDS 5936

Intermediate shafts, Material O.H. Steel, Forged

Identification Marks LLOYDS 5935 LLOYDS 5917 L.R. 1177 L.R. 1179 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

The amount of Fee £\$550.00

When applied for, July 26 1949

Travelling Expenses (if any) £\$250.00

When received,

19

Committee's Minute

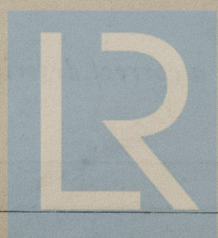
FRI. 31 AUG 1951

Assigned

See Mch. F.E. Rpt.

R. S. Haagenen

Surveyor to Lloyd's Register of Shipping.



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