

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 17660  
28 AUG 1950

Received at London Office

Date of writing Report 16th Aug. 1950. When handed in at Local Office 22nd Aug. 1950. Port of Gothenburg.

No. in Survey held at Uddevalla Date, First Survey 23rd January Last Survey 19th July 1950.

Reg. Book. 36036 on the ~~Twin~~ Screw vessel "ISLAS MALVINAS" Number of Visits 9 Tons <sup>Gross</sup> 9822 <sub>Net</sub> 5565

Built at Uddevalla By whom built Uddevallavarvet A-B. Yard No. 111 When built 1950

Owners Argentine Government (Yacimientos Petroliferos Fiscales) Port belonging to Buenos Aires

Oil Engines made at St. Louis, Mo. By whom made Busch Sulzer Bros. ~~Contract No.~~ 9236-0093 When made 1949

Generators made at Erie, Pa. By whom made Burke Electric Co. ~~Contract No.~~ 164473-4-5-6/0098 0099 When made 1949

No. of Sets 4 Engine Brake Horse Power 465 M.N. as per Rule Total 465 Total Capacity of Generators 1280 Kilowatts.

Is Set intended for essential services Yes

**OIL ENGINES, &c.**—Type of Engines Heavy oil engine, solid injection, trunk type or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders..... Diameter of cylinders..... Length of stroke..... No. of cylinders..... No. of cranks.....

Mean indicated pressure..... Firing order in cylinders..... Span of bearings, adjacent to the Crank, measured from inner edge to inner edge.....

Is there a bearing between each crank..... Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)..... Revolutions per minute.....

Flywheel dia..... Weight..... Means of ignition..... Kind of fuel used.....

Crank Shaft, dia. of journals <sup>as per Rule</sup>..... Crank pin dia..... Crank Webs <sup>Mid. length breadth</sup>..... <sup>Thicknes parallel to axis</sup>..... <sup>shrunk</sup>..... <sup>Thicknes round eyehole</sup>.....

Flywheel Shaft, diameter <sup>as per Rule</sup>..... Intermediate Shafts, diameter <sup>as per Rule</sup>..... General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>).....

Are means provided to prevent racing of the engine when declutched..... Means of lubrication..... Kind of damper if fitted.....

Are the cylinders fitted with safety valves Yes 1 salt, 1 fresh. Also Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

Cooling Water Pumps, No. connected to the main cooling system Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size.....

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

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

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

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 Drip proof, compound, direct coupled

Pressure of supply 230 volts. Full Load Current 1391 Amperes. Direct or Alternating Current Direct

If 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..... 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

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test..... and do the results comply with the requirements.....

If the generators are 100 kw. or over have they been built and tested under survey..... Yes

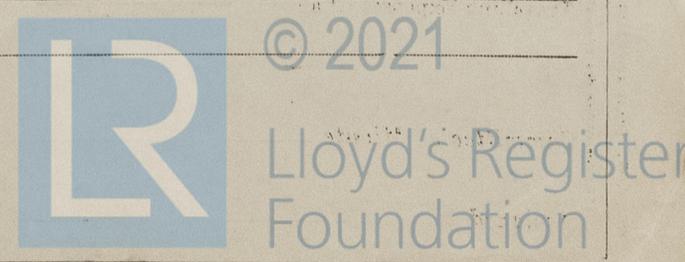
Details of driven machinery other than generator..... Only generators

**PLANS.**—Are approved plans forwarded herewith for Shafting..... Receivers..... Separate Tanks.....

Have Torsional Vibration characteristics if applicable been approved..... Armature shaft Drawing No.....

**SPARE GEAR** As per Rule applied

The foregoing is a correct description,  
**UDDEVALLAVARVET**  
*Aktieförlag* Manufacturer.



Dates of Survey while building { During progress of work in shops - - } -----  
 { During erection on board vessel - - } 23rd January - 19th July, 1950.  
 Total No. of visits 9

Dates of Examination of principal parts—Cylinders ----- Covers ----- Pistons <sup>M</sup> ----- Piston rods -----

Connecting rods ----- Crank and Flywheel shafts ----- Intermediate shafts -----

Crank shaft { Material ----- Tensile strength -----  
 { Elongation ----- Identification Marks -----

Flywheel shaft, Material ----- Identification Marks -----

Identification marks on Air Receivers -----

Is this machinery duplicate of a previous case No If so, state name of vessel -----

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

These auxiliary engines have been fitted on board under my inspection and to my satisfaction and have been tested under full working power and found to work satisfactorily.

Please see also Cleveland, Ohio, First Entry Report No.1346.

T. (MADE AND PRINTED IN ENGLAND)  
 (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 ---

Committee's Minute -----  
 Assigned *See F.E. entry rpt.*

FRI, 22 SEP 1950

*Anders Sjögren*  
 Surveyor to Lloyd's Register of Shipping.

