

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18115.

Received at London Office 9 APR 1951

Date of writing Report 19th March 1951. When handed in at Local Office 4th April 1951. Port of Gothenburg

No. in Survey held at Uddevalla Date, First Survey 26th October 1950 Last Survey 16th March 1951  
Reg. Book. Number of Visits 5

90078 on the Twin Screw vessel "ISLAS ORCADAS" Tons Gross 9809 Net 5582

Built at Uddevalla By whom built Uddevallavarvet A-B. Yard No. 112 When built 1951

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

Oil Engines made at St. Louis, Mo., U.S.A. By whom made Busch-Sulzer Bros. Engines Nos. 9236 0095 When made 1949

Generators made at Erie, Pa., U.S.A. By whom made Burke Electric Co. Gen. Nos. 164477-78-79-80 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 engines, solid injection, trunk type 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 as per Rule Crank pin dia. Crank Webs Mid. length breadth Thickness parallel to axis

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule 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 Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

Cooling Water Pumps, No. 1 salt and 1 fresh, also 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 1 for each engine

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 No separate receivers for the 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

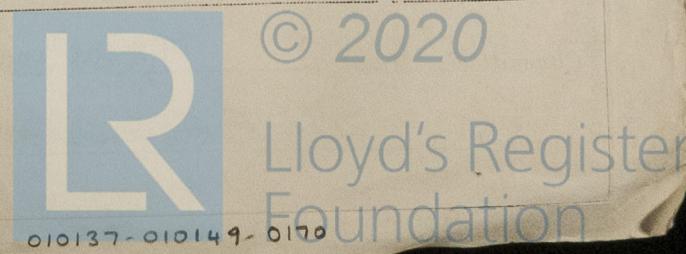
Details of driven machinery other than generator Only generators

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 supplied

The foregoing is a correct description,  
*Johannes Larsson* Manufacturer.



Dates of Survey while building { During progress of work in shops - - - - -  
 { During erection on board vessel - - - - - 26th October, 1950 - 16th March, 1951.  
 Total No. of visits 5

Dates of Examination of principal parts—Cylinders --- Covers --- Pistons --- 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 Yes If so, state name of vessel M/T "Islas Malvinas", Gothenburg First Entry Report No.17660.

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

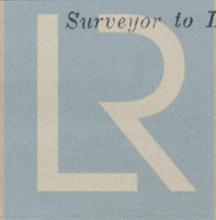
These auxiliary engines have been fitted on board under my inspection and to my satisfaction and have been tested under full working power and found to work satisfactorily.

See also Cleveland, Ohio, First Entry Report No.1347.

2m. 40. - T. (MADE IN ENGLAND)  
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ --- : --- : --- (When applied for --- 19 ---  
 Travelling Expenses (if any) £ --- : --- : --- (When received --- 19 ---

Committee's Minute TUES. 24 APR 1951  
 Assigned Sue F.E. Mchly. rpt

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