

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 6134c

(EMERGENCY GENERATOR SET)

Received at London Office

16 SEP 1950

Writing Report 29th July 1950 When handed in at Local Office 31st July 1950 Port of

Halifax, N. S.

Survey held at Halifax, N. S. Date, First Survey 2nd Nov., 1949 Last Survey 22nd June, 1950

Number of Visits 4

on the Twin Screw vessel "BAHIA THETIS" Tons (Gross 3830.75 (Net 2100.49

at Halifax, N. S. By whom built Halifax Shipyards, Limited. Yard No. 18 When built 1950

Argentine Government Port belonging to Buenos Aires

Engines made at Hanover, Pa. By whom made R. H. Sheppard Co., for Fairbanks Morse & Co. Engine Ser. No. 107044 When made 1949

Generators made at Beloit, Wisconsin By whom made Fairbanks Morse & Co. Generator Ser. No. X73334 When made 1949

of Sets One Engine Brake Horse Power 31 Nom. Horse Power as per Rule - Total Capacity of Generator 20 Kilowatts.

Particulars entered as applicable from Bal. Rpt. 4b-No. 8941, previously forwarded with Hfx. Rpt. 4b-No. 6110 "BAHIA AGUIRRE"). ENGINES, &c.—Type of Engines Heavy Oil, Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single.

Maximum pressure in cylinders 650 p.s.i. Diameter of cylinders 4 1/4" Length of stroke 5" No. of cylinders 3 No. of cranks 3

Distance between bearings, adjacent to the Crank, measured from inner edge to inner edge 4.425" Is there a bearing between each crank Yes

Revolutions per minute 1450 Flywheel dia. 16" Weight 176 lbs. Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 2.21" as fitted 2.75" Crank pin dia. 2.75" Crank Webs Mid. length breadth 3-5/8" Thickness parallel to axis -

Wheel Shaft, diameter as per Rule - as fitted - Intermediate Shafts, diameter as per Rule - as fitted - Thickness of cylinder liners -

governor or other arrangement fitted to prevent racing of the engine ~~woodcock~~ Yes Means of lubrication Pressure

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

Boiling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel. (Air cooling)

Lubricating Oil Pumps, No. and size One integral with engine (Battery or manual starting)

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

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

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

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

Are the internal surfaces of the receivers 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 -

Unless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

Low Pressure Air Receivers, No. - Total cubic capacity - Internal diameter - thickness -

Unless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

ELECTRIC GENERATORS:—Type Compound wound, drip-proof enclosure.

Pressure of supply 230 volts. Full Load Current 87 Amperes. Direct or Alternating Current D.C.

Is the 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

locks 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

(Cert. of Test issued by Surveyors at Cleveland, Ohio, copy forwarded with Hfx. Rpt. 13- No. 6134)

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

tested and tested under survey -

Are approved plans forwarded herewith for Shafting No. NYK. 12-8-49 Receivers - Separate Tanks -

RE GEAR To Rule Requirements, and see Bal. Rpt. 4b - No. 8941.

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register Foundation

014751-04762-0150

(Particulars also entered from Bal. Rpt. 4b - No. 8941)

Dates of Survey while building { During progress of work in shops -- } 11, 15 & 22nd August, 1949  
{ During erection on board vessel --- } 2nd Nov., 1949; 10th Feb., 16th May & 22nd June, 1950.  
Total No. of visits 7 (3 plus 4)

Dates of Examination of principal parts—Cylinders 11-8-49 Covers 11-8-49 Pistons 11-8-49 Piston rods -  
Connecting rods 11-8-49 Crank ~~and flywheel~~ shafts 11-8-49 Intermediate shafts -  
Crank ~~and flywheel~~ shafts, Material O.H. Forged Steel Identification Marks LLOYDS SR 124 22-8-49 C.H.H.  
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 MV "BAHIA AGUIRRE (Halifax Rpt. 4b - No. 8941)" MV "BAHIA BUEN SUCESO" ( " " )

General Remarks (State quality of workmanship, opinions as to class, &c.) This Oil Engine Emergency Generator Set has been constructed under the supervision of the Society's Surveyors, installed on board the vessel in accordance with the Requirements of the Rules and the Approved Plans, tested under full working conditions and found satisfactory. (See also Baltimore Rpt. 4b - No. 8941, forwarded with Halifax Rpt. 4b - No. 6110, M.V. "BAHIA AGUIRRE").

The workmanship and materials are good, and it is recommended for the favourable consideration of the Committee that this Oil Engine Emergency Generator Set, in conjunction with the Main Machinery, is eligible, in my opinion, to be classed \* LMC 8,50.

1M - 3-42 - Transfer. (Printed in U. S. A.)  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

Collected at Baltimore.  
The amount of Fee £ : When applied for, 19  
(See Bal. Rpt. 10, 22-8-49, copy forwarded herewith).  
Travelling Expenses (if any) £ : When received, 19  
(Included in Hfx. Rpt. 4b-No. 6134)

*Geo. Reddie*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 29 SEP 1950**

Assigned *See minute on S.B. Rpt.*