

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 1925.

Received at London Office

JUN 26 1937

Date of writing Report March 27th 1937 When handed in at Local Office

Port of Bremen

Survey held at Augsburg

Date, First Survey Dec. 1st 1936 Last Survey March 24th 1937

Number of Visits 41

8442 on the Single Screw vessel

GAMBIAN

Tons { Gross 5452
Net 3106

Built at Bremen By whom built Messrs. Deschimag Yard No. 571 When built 1936/37

Owners Messrs. Amalver LEVER BROS TORONTO Port belonging to FREETOWN

Engines made at Augsburg By whom made Messrs. M. A. N. Contract No. 500040/050/060 When made 1936/37

Generators made at Bremen By whom made Messrs. A. E. G. Contract No. When made 1936/37

No. of Sets 3 Engine Brake Horse Power 3x165 Nom. Horse Power as per Rule 3x37 Total Capacity of Generators 3x110 Kilowatts.

TYPE OF ENGINES, &c.—Type of Engines 3x95V33 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 49 kg/cm² Diameter of cylinders 220 Length of stroke 330 No. of cylinders 3x5 No. of cranks 3x5

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 258 Is there a bearing between each crank yes

Revolutions per minute 440 Flywheel dia. 1450 Weight 875 Means of ignition dis. ign. Kind of fuel used diesel oil on test bed.

Crank Shaft, dia. of journals 130 Crank pin dia. 130 Crank Webs 240 Mid. length breadth 240 Thickness parallel to axis 61

Flywheel Shaft, diameter 130 Intermediate Shafts, diameter 130 Thickness of cylinder liners 14.5 mm.

Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced

Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water cooled

Cooling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 each engine 1.18 m³/h.

Air Compressors, No. 2 2 200/75 Stroke 188 Driven by clutch p. aux. eng.

Scavenging Air Pumps, No. 32168/169 Diameter 200/75 Stroke 188 Driven by

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes

Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces opening the bottle head.

Is there a drain arrangement fitted at the lowest part of each receiver yes

High Pressure Air Receivers, No. 1 Cubic capacity of each 275 l Internal diameter 416 thickness 12

Seamless, lap welded or riveted longitudinal joint Seamless Material S.M. steel Range of tensile strength 45-57 kg Working pressure by Rules 55, 12.

Starting Air Receivers, No. 1 Total cubic capacity 275 l Internal diameter 416 thickness 12

Seamless, lap welded or riveted longitudinal joint Seamless Material S.M. steel Range of tensile strength 45-57 kg Working pressure by Rules 55, 12.

ELECTRIC GENERATORS:—Type please note Bremen Certificates G.B. 709/710/711 12/13. 2. 37.

Pressure of supply 15.9.36 volts. Load 24.4.35 Amperes. Direct or Alternating Current

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Generators, do they comply with the requirements regarding rating are they compound wound

are they over compounded 5 per cent. if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field Are all terminals accessible, clearly marked, and furnished with sockets

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

PLANS. Are approved plans forwarded herewith for Shafting 15.9.36 Receivers 24.4.35 Separate Tanks

SPARE GEAR as per Rules.

The foregoing is a correct description
Maschinenfabrik Augsburg-Nürnberg A.-G.
K. W. ...

Manufacturer.



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Lloyd's Register Foundation

003421-003428-0255

Dates of Survey while building
 During progress of work in shops - Dec. 1, 9, 10, 11, 14, 16, 17, 19, 21, 23, 30. Jan 37. 28, 29.
 Feb. 1, 2, 4, 8, 10, 16, 19, 20, 22, 23, 26.
 During erection on board vessel - March. 3, 4, 5, 6, 8, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 22, 24.
 Total No. of visits 41

Dates of Examination of principal parts—Cylinders 28.1.12.22.37 Covers 10.11.12.36. Pistons 16.26.2.37 Piston rods

Connecting rods 16.26.2.37. Crank and Flywheel shaft 16.17.2.37. Intermediate shaft

Crank and Flywheel shaft, Material S.M. steel Identification Mark H.S. 3027 17.2.37 7979B
 H.P. 3027 16.2.37 8287A
 H.P. 3027 16.2.37 8261A

Is this machinery duplicate of a previous case? yes If so, state name of vessel standard type of makers.

General Remarks (State quality of workmanship, opinions as to class, &c.) These three auxiliary heavy oil engines have been constructed under special survey in accordance with the Soc. Rules and Regulations, as well as with the approved plans and instructions thereto. The material used in the construction is good and the workmanship is satisfactory.

The aux. oil engine No 500040 has been tested, running under full load and 10% overload during 8 hours on the test bed of the makers in the presence of the representative of the owners and the undersigned and was found to work satisfactorily during this time.

In our opinion the vessel for which these aux. engines are intended will be eligible for the notation of + U.M.C. (with date) when the whole machinery has been fitted satisfactorily on board and tried under full working conditions

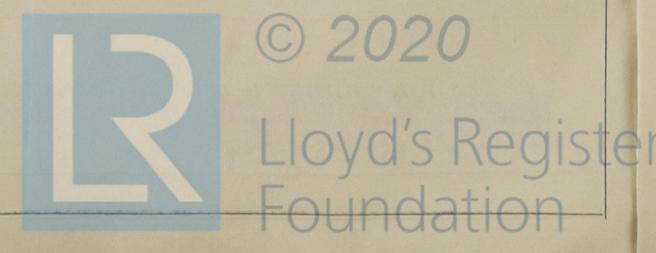
These three Auxiliary Oil Engine have been satisfactorily installed on board, tried under working conditions and found in order in all respects.

Primer 24.6.37
 A. Carstensen

The amount of Fee Rs. 55.5.00
 1 x bed test " 63.00
 Travelling Expenses (if any) " 32.00
 When applied for, 3.4.1937.
 When received, 11.5.37

McMeider. W. Petersen.
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 2 JUL 1937
 Assigned See other F.E. report



Im. 7.29—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)