

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS. No. 1935

JUL 28 1937

completed 23.7.37.
 Date of writing Report 20th April 1937 When handed in at Local Office 19 Port of Bremen in Wesermünde 21.7.37
 No. in Survey held at 90466 on the ^{Single} ~~Triple~~ ~~Quadruple~~ Screw vessel TAKORADIAN
 Reg. Book. ~~Wesermünde~~ ^{Wesermünde} Date, First Survey 14th Dec. 1936 Last Survey 19th April 1937
 Number of Visits 48+5

Built at ~~Bremen~~ ^{Wesermünde} By whom built Messrs. ~~Deichmeyer~~ ^{WERK: SEEBECK} Yard No. 572 When built 1936/37.
 Owners ELMINA CO LTD. ACCRA. Port belonging to FREETOWN
 Oil Engines made at Augsburg By whom made Messrs. M. A. N. Contract No. 500070/080/090 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 330 Kilowatts.

OIL ENGINES, &c. Type of Engines 3x 9.5 V33 2 or 4 stroke cycle 4 Single or double acting ^{single}
 Maximum pressure in cylinders 49 atm. 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 ^{di. ign.} Kind of fuel used ^{di. oil on test bed}
 Crank Shaft, dia. of journals as per Rule 130 as fitted 130 Crank pin dia. 130 Crank Webs Mid. length breadth 340 Thickness parallel to axis shrunk
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule 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. 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 No. of stages 2 Diameters 200/75 Stroke 188 Driven by ^{movable clutch for aux. eng.}
 Scavenging Air Pumps, No. Comps. N. 32166/67. K.P. 4/1-2 Diameter Stroke 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

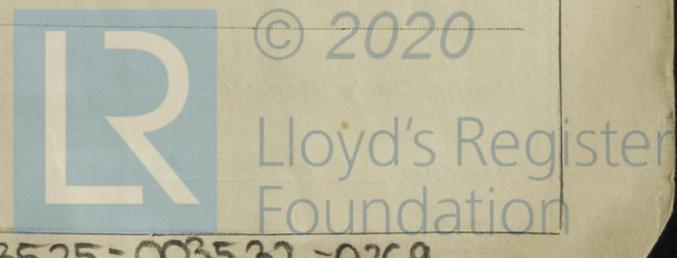
High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 Starting Air Receivers, No. 1 Total cubic capacity 275 l Internal diameter 416 thickness 12
 Seamless, lap welded or riveted longitudinal joint ^{flanges} Material J. M. steel Range of tensile strength 45-57 Working pressure by Rules 5.5, 12

ELECTRIC GENERATORS:—Type please note Bremen Certificates G. G. 712/713/714
 Pressure of supply volts. Load 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
 Are there any 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 19.9.36. Receivers 24.4.35. Separate Tanks
 Spare Gear as per Rules.

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



1936 Dec. 14, 16, 17, 19, 21, 23. Jan 1937 6, 28, 29. Febr. 1, 4, 9, 10, 13, 15, 18, 23, 26.
 March. 1, 2, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 30, 31.

Dates of Survey while building
 During progress of work in shops - - April. 1, 2, 3, 5, 12, 14, 15, 16, 17, 19.
 During erection on board vessel - - - - - May 2, 9, 15, 17, 21
 Total No. of visits 48. + 5

Dates of Examination of principal parts—Cylinders 29. 1/13/23. 2. 37. Covers 14/16. 12./6. 1. 37. Pistons 17. 3. 37. Piston rods

Connecting rods 17. 3. 37. Crank and Flywheel shaft 2. 3. /10. 3. 37. Intermediate shaft

Crank and Flywheel shaft, Material S.M. steel Identification 8287 B Lloyd's 3028 H.S. 2. 3. 37.
 8262 A " " Intermediate shafts, Material Identification Marks " " W.P. 10. 3. 37.

Is this machinery duplicate of a previous case yes If so, state name of vessel aux. eng. Deshima Yard 571.

General Remarks (State quality of workmanship, opinions as to class, &c. These 3 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 auxiliary oil engine 500 070 has been tested running under full load and 10% overload during 8 hours on the makers test bed in the presence of the representatives of the owners and the undersigned and was found to work satisfactorily during these trials.

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

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

Witness
 A. Carstensen

The amount of Fee Dec. 555.00 : When applied for, 30. 4. 1937.
 1 x Lett. Rev. Fr. " 63. 00
 Travelling Expenses (if any) Dec. 32. 00 : When received, 8. 6. 1937

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

Committee's Minute

FRI 6 AUG 1937

Assigned

See other FE rpt.



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