

completed 23.7.37.  
Date of writing Report 20th April 1937

When handed in at Local Office

19 Port of Bremen

No. in Survey held at Augsburg & Weismünde

Date, First Survey 14th Dec. 1936

Last Survey 19th April 1937

Reg. Book.

Number of Visits 48 + 5

90466 on the ~~Triple~~ <sup>Single</sup> Screw vessel

TAKORADIAN

Tons { Gross 5452  
Net 3106

Built at ~~Bremen~~ WEISMÜNDE By whom built Messrs. Jenbacher

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 3 x 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 diesel oil on test bed?

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

as fitted 130 Mid. length thickness 61 Thickness around eye hole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 14.5 mm

as fitted 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 m<sup>3</sup>/h.

Air Compressors, No. 2 No. of stages 2 Diameters 200/75 Stroke 188 Driven by clutch from engine

Scavenging Air Pumps, No. Comp. N. 32/66/67. K.P. 4/1-2 Diameter Stroke Driven by

IR 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 Material J. M. steel Range of tensile strength 45-57 Working pressure by Rules 55, 12

ELECTRIC GENERATORS:—Type please note Bremen Certificates G. G. 712/713/714

Pressure of supply volts. Load Amperes. Direct or Alternating Current 11.773. 2.37.

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 19.9.36. Receivers 24.4.35. Separate Tanks

PAIRE GEAR as per Rules.



1936 Dec. 14, 16, 17, 19, 21, 23. Jan 1937 6, 28, 29. Feb. 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 8282 B 3028 H.S. 2. 3. 37. Identification Marks  
8281 B " Intermediate shafts, Material 4.P. 10. 3. 37.

Is this machinery duplicate of a previous case yes If so, state name of vessel aux. eng. Machinery 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 ... Dm. 552.00 : When applied for, 30. 4. 1937.  
1 x Lett. Fee Tr. 63. 00  
Travelling Expenses (if any) Dm. 32. 00 : When received, 8. 6. 1937

W. H. M. J. van der Pijl

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 6 AUG 1937

Assigned

See other FE rpt.



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