

Comm. 735 299 Engine: 415059
Spt. 4c.

Auxiliary to class

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 157.

3 DEC 6

Date of writing Report 16. M. Nov. 1936 When handed in at Local Office 19 Port of Busselburg
No. in Survey held at Bulgaria Date, First Survey 30. M. October Last Survey 11. M. November 1936
Reg. Book. Number of Visits

on the Single Twin Triple Quadruple Screw vessel
Built at Alblasenham By whom built Messrs. M. J. de Noort Yard No. 562 When built 1936

Owners Port belonging to
Oil Engines made at Bulgaria By whom made Messrs. Humboldt-Deutzmotoren A.G. Contract No. 735 299 When made 1936
Generators made at By whom made Contract No. When made

No. of Sets Engine Brake Horse Power 15 Nom. Horse Power as per Rule 3.16 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine Type M.J.H. 322. 2 or 4 stroke cycle for Single or double acting single
Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 145 mm. Length of stroke 220 mm. No. of cylinders One No. of cranks One
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 126 mm. Is there a bearing between each crank Yes
Revolutions per minute 750 Flywheel dia. 2. 950 mm Weight 234 kg. each Means of ignition solid ignition Kind of fuel used

Crank Shaft, dia. of journals as per Rule. 75 mm. Crank pin dia. 75 mm. Crank Webs Mid. length breadth. 112 mm. Thickness parallel to axis shrunk
as fitted. 75 mm. Mid. length thickness. 42 mm. Thickness around eyehole
Flywheel Shaft, diameter as per Rule. Intermediate Shafts, diameter as per Rule. Thickness of cylinder liners 15 mm.
as fitted. as fitted. as fitted.

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication by pressure
Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material No
Cooling Water Pumps, No. No Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 pump driven by an electric motor.
Air Compressors, No. No. of stages Diameters Stroke Driven by
Scavenging Air Pumps, No. Diameter Stroke Driven by

IR RECEIVERS:—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
Pressure of supply volts. Full Load Current Amperes. Direct or Alternating Current
If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off

Generators, are they compounded as per rule 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

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
LANS. Are approved plans forwarded herewith for Shafting 109 510 4. 12. 2. 32. Receivers Separate Tanks
(If not, state date of approval)

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The foregoing is a correct description,

Humboldt-Deutzmotoren
Aktiengesellschaft

Manufacturer.



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002923-002928-0207

30. M. Oktober 11. M. November 1936

Dates of Examination of principal parts—Cylinders 30. 11. October Covers 30. 11. October Pistons 30. 11. October Piston rods

Connecting rods 11. 11. November Crank and Flywheel shaft 11. 11. November Intermediate shaft

Crank and Flywheel shafts, Material	U. M. Steel	Identification Mark	16485 K.H. 30. 10. 36
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[illegible]

Is this machinery duplicate of a previous case NO If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. This auxiliary oil engine has been built in accordance with the approved plans and the requirements embodied in the Secretary's letter of the 12. th. February 1932. The material and workmanship was found to be of the best quality, the outfit is ample. The machinery has been tested under full working condition for four hours, and for further half an hour at 10% overload on the trial stage in machine shop, and has given full satisfaction. After trial all working parts of the engine have been opened up for examination and were found in good condition. The engine has been built under special survey, and will be fitted on board the vessel 562, in construction at Messrs. M. & Co. Nord of Alkassenham.

In my opinion the auxiliary engine is eligible for notation.

✠ N. E. 11. 36.

The amount of Fee

100 -

When applied for, 19. 11. 19. 36

Acc. No 9664

Travelling Expenses (if any)

Mr 10 -

When received,

When received
1-1 1931

Committee's Minute

FRI 12 FEB 1937

Assigned

See Rat 25226

H. Hingemann
Surveyor to Lloyd's Register of Shipping.

Surveyor to Lloyd's Register of Shipping.

Received Secretary's letter
FEB 1937 1-1-37

1-1.37

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