

## REPORT ON OIL ENGINE MACHINERY.

No 16426

MON. 20 JUL 1925

Received at London Office

Port of HAMBURG

Date of writing Report 10 July 1925 when handed in at Local Office

No. in Survey held at BERLIN & HAMBURG Date, First Survey 26 May 1922 Last Survey 25 June 1925  
Reg. Book.Single  
on the Twin  
Triple Screw vessels.

AMERIKALAND

Tons Gross 15550  
Net 4572

Master Built at HAMBURG By whom built Deutsches Werft. Yard No. 50 When built 1925

Engines made at BERLIN By whom made F. E. G. Turbinenfabrik. Engine No. 110/11 When made 1925

Donkey Boilers made at HAMBURG By whom made Deutsche Werft AG Boiler No. 119 When made 1925

Brake Horse Power 2 x 2800 Owners AXEL BROSTRÖM &amp; SON Port belonging to GOTTHEMBURG

Nom. Horse Power as per Rule 1450 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes

OIL ENGINES, &amp;c. Type of Engines 2 Diesel engines, Type B + N. 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 500 kg/cm² No. of cylinders 2 x 8 No. of cranks 2 x 8 Diameter of cylinders 740 mm

Length of stroke 1200 mm Revolutions per minute 110 rev. Means of ignition Diesel principle Kind of fuel used Diesel Oil

Is there a bearing between each crank Yes Span of bearings (Page 92, Section 2, par. 7 of Rules) 950 mm

Distance between centres of main bearings 7600 mm Is a flywheel fitted Yes Diameter of crank shaft journals as per Rule as fitted 466 mm

Diameter of crank pins 466 mm Breadth of crank webs as per Rule 859 mm (Eq. 2007) Thickness of ditto as per Rule 285 mm

Diameter of flywheel shaft as per Rule 493 mm Diameter of tunnel shaft as per Rule 312 mm Diameter of thrust shaft as per Rule 625 mm

Diameter of screw shaft as per Rule 1962 mm as fitted 316 mm as fitted 366 mm

Diameter of screw shaft as per Rule 354 mm as fitted 366 mm Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes

Is the after end of the liner made watertight in the propeller boss Yes If the liner is in more than one length are the joints burned Yes

If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two liners are fitted, is the shaft lapped or protected between the liners Yes If without liners, is the shaft arranged to run in oil

Type of outer gland fitted to stern tube Length of stern bush 1725 mm Diameter of propeller 4300 mm

Pitch of propeller 3140 mm No. of blades 4 state whether moveable No Total surface 59.19 m² square feet

Method of reversing 2+2 ✓ Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Thickness of cylinder liners 60 mm

Are the cylinders fitted with safety valves Yes Means of lubrication forced lubrication Are the exhaust pipes and silencers water cooled or lagged with

non-conducting material Yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being siphoned back to the engine Yes

Funnel No. of cooling water pumps 2 Is the sea suction provided with an efficient strainer which can be cleared

within the vessel Yes No. of bilge pumps fitted to the main engines 4 Diameter of ditto 100 mm Stroke 120

Can one be overhauled while the other is at work Yes No. of auxiliary pumps connected to the main bilge lines 2 Hose driven electric

Sizes of pumps See below No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps In engine room 6 each of 90² diam.

and in holds, etc. 6 each of 90² - 2 each of 25² diam. to pump No. of ballast pumps 4 How driven electric Sizes of pumps See below

In the ballast pump fitted with a direct suction from the engine room bilges No Suction size Is a separate auxiliary pump suction fitted in

Engine Room and size 4 x 100 mm Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine Room always accessible Yes

Are the suctions on Engine Room bulkheads always accessible Two places Are all connections with the sea direct on the skin of the ship Yes

Are they valves or cocks Valve - cock Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates Yes

Are the discharge pipes above or below the deep water line above &amp; below Are they each fitted with a discharge valve always accessible on the plating of the vessel Yes

Are all pipes, cocks, valves and pumps in connection with the machinery accessible at all times Yes Are the bilge suction pipes, cocks and valves arranged so as to prevent any

communication between the sea and the bilges Yes Is the screw shaft typal watertight Yes Is it fitted with a watertight door Machinery area

worked from If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

No. of main air compressors 2 ✓ No. of stages 6 ✓ Diameter 850-760-770 mm Stroke 400 mm Driven by main engine

No. of auxiliary air compressors 10, 1st 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th No. of stages 3 ✓ Diameter 720-855-802 mm Stroke 220 mm Driven by aux. Diesel engine

No. of small auxiliary air compressors 1 ✓ No. of stages 2 ✓ Diameter 100-140 mm Stroke 100 mm Driven by one cyl. steam engine

No. of scavenging air pumps ✓ Diameter ✓ Stroke ✓ Driven by

Diameter of auxiliary Diesel Engine crank shafts as per Rule as fitted 160 mm Are the air compressors and their coolers made so as to be easy of access Yes

170 mm (2 of 146-160-170-180-190-200-210-220-230-240-250-260-270-280-290-300-310-320-330-340-350-360-370-380-390-400-410-420-430-440-450-460-470-480-490-500-510-520-530-540-550-560-570-580-590-600-610-620-630-640-650-660-670-680-690-700-710-720-730-740-750-760-770-780-790-800-810-820-830-840-850-860-870-880-890-900-910-920-930-940-950-960-970-980-990-1000-1010-1020-1030-1040-1050-1060-1070-1080-1090-1100-1110-1120-1130-1140-1150-1160-1170-1180-1190-1200-1210-1220-1230-1240-1250-1260-1270-1280-1290-1300-1310-1320-1330-1340-1350-1360-1370-1380-1390-1400-1410-1420-1430-1440-1450-1460-1470-1480-1490-1500-1510-1520-1530-1540-1550-1560-1570-1580-1590-1600-1610-1620-1630-1640-1650-1660-1670-1680-1690-1700-1710-1720-1730-1740-1750-1760-1770-1780-1790-1800-1810-1820-1830-1840-1850-1860-1870-1880-1890-1900-1910-1920-1930-1940-1950-1960-1970-1980-1990-2000-2010-2020-2030-2040-2050-2060-2070-2080-2090-2100-2110-2120-2130-2140-2150-2160-2170-2180-2190-2200-2210-2220-2230-2240-2250-2260-2270-2280-2290-2300-2310-2320-2330-2340-2350-2360-2370-2380-2390-2400-2410-2420-2430-2440-2450-2460-2470-2480-2490-2500-2510-2520-2530-2540-2550-2560-2570-2580-2590-2600-2610-2620-2630-2640-2650-2660-2670-2680-2690-2700-2710-2720-2730-2740-2750-2760-2770-2780-2790-2800-2810-2820-2830-2840-2850-2860-2870-2880-2890-2900-2910-2920-2930-2940-2950-2960-2970-2980-2990-3000-3010-3020-3030-3040-3050-3060-3070-3080-3090-3100-3110-3120-3130-3140-3150-3160-3170-3180-3190-3200-3210-3220-3230-3240-3250-3260-3270-3280-3290-3300-3310-3320-3330-3340-3350-3360-3370-3380-3390-3400-3410-3420-3430-3440-3450-3460-3470-3480-3490-3500-3510-3520-3530-3540-3550-3560-3570-3580-3590-3600-3610-3620-3630-3640-3650-3660-3670-3680-3690-3700-3710-3720-3730-3740-3750-3760-3770-3780-3790-3800-3810-3820-3830-3840-3850-3860-3870-3880-3890-3900-3910-3920-3930-3940-3950-3960-3970-3980-3990-4000-4010-4020-4030-4040-4050-4060-4070-4080-4090-4010-4020-4030-4040-4050-4060-4070-4080-4090-4100-4110-4120-4130-4140-4150-4160-4170-4180-4190-4200-4210-4220-4230-4240-4250-4260-4270-4280-4290-4210-4220-4230-4240-4250-4260-4270-4280-4290-4300-4310-4320-4330-4340-4350-4360-4370-4380-4390-4400-4410-4420-4430-4440-4450-4460-4470-4480-4490-4500-4510-4520-4530-4540-4550-4560-4570-4580-4590-4600-4610-4620-4630-4640-4650-4660-4670-4680-4690-4700-4710-4720-4730-4740-4750-4760-4770-4780-4790-4800-4810-4820-4830-4840-4850-4860-4870-4880-4890-4900-4910-4920-4930-4940-4950-4960-4970-4980-4990-5000-5010-5020-5030-5040-5050-5060-5070-5080-5090-5100-5110-5120-5130-5140-5150-5160-5170-5180-5190-5200-5210-5220-5230-5240-5250-5260-5270-5280-5290-5300-5310-5320-5330-5340-5350-5360-5370-5380-5390-5400-5410-5420-5430-5440-5450-5460-5470-5480-5490-5500-5510-5520-5530-5540-5550-5560-5570-5580-5590-5600-5610-5620-5630-5640-5650-5660-5670-5680-5690-5700-5710-5720-5730-5740-5750-5760-5770-5780-5790-5800-5810-5820-5830-5840-5850-5860-5870-5880-5890-5900-5910-5920-5930-5940-5950-5960-5970-5980-5990-6000-6010-6020-6030-6040-6050-6060-6070-6080-6090-6100-6110-6120-6130-6140-6150-6160-6170-6180-6190-6200-6210-6220-6230-6240-6250-6260-6270-6280-6290-6300-6310-6320-6330-6340-6350-6360-6370-6380-6390-6400-6410-6420-6430-6440-6450-6460-6470-6480-6490-6500-6510-6520-6530-6540-6550-6560-6570-6580-6590-6600-6610-6620-6630-6640-6650-6660-6670-6680-6690-6700-6710-6720-6730-6740-6750-6760-6770-6780-6790-6800-6810-6820-6830-6840-6850-6860-6870-6880-6890-6900-6910-6920-6930-6940-6950-6960-6970-6980-6990-7000-7010-7020-7030-7040-7050-7060-7070-7080-7090-7010-7020-7030-7040-7050-7060-7070-7080-7090-7100-7110-7120-7130-7140-7150-7160-7170-7180-7190-7110-7120-7130-7140-7150-7160-7170-7180-7190-7200-7210-7220-7230-7240-7250-7260-7270-7280-7290-7210-7220-7230-7240-7250-7260-7270-7280-7290-7300-7310-7320-7330-7340-7350-7360-7370-7380-7390-7310-7320-7330-7340-7350-7360-7370-7380-7390-7400-7410-7420-7430-7440-7450-7460-7470-7480-7490-7410-7420-7430-7440-7450-7460-7470-7480-7490-7500-7510-7520-7530-7540-7550-7560-7570-7580-7590-7510-7520-7530-7540-7550-7560-7570-7580-7590-7600-7610-7620-7630-7640-7650-7660-7670-7680-7690-7610-7620-7630-7640-7650-7660-7670-7680-7690-7700-7710-7720-7730-7740-7750-7760-7770-7780-7790-7710-7720-7730-7740-7750-7760-7770-7780-7790-7800-7810-7820-7830-7840-7850-7860-7870-7880-7890-7810-7820-7830-7840-7850-7860-7870-7880-7890-7900-7910-7920-7930-7940-7950-7960-7970-7980-7990-7910-7920-7930-7940-7950-7960-7970-7980-7990-8000-8010-8020-8030-8040-8050-8060-8070-8080-8090-8010-8020-8030-8040-8050-8060-8070-8080-8090-8100-8110-8120-8130-8140-8150-8160-8170-8180-8190-8110-8120-8130-8140-8150-8160-8170-8180-8190-8200-8210-8220-8230-8240-8250-8260-8270-8280-8290-8210-8220-8230-8240-8250-8260-8270-8280-8290-8300-8310-8320-8330-8340-8350-8360-8370-8380-8390-8310-8320-8330-8340-8350-8360-8370-8380-8390-8400-8410-8420-8430-8440-8450-8460-8470-8480-8490-8410-842

IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

## HYDRAULIC TESTS:-

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS	6/6/24 - 30/10/24.	85 kg/cm <sup>2</sup>	104 kg/cm <sup>2</sup>	✓	
COVERS	5/5/24 - 7/11/24.	25	60	✓	
JACKETS	28/10/24 - 13/11/24.	2	100	✓	
PISTON WATER PASSAGES	20/6/24 - 16/10/24	2	100	✓	
MAIN COMPRESSORS—1st STAGE	30/10/24	14	10	✓	
2nd	30/10/24	16	30	✓	
3rd	16/10/24	62	100	✓	
AIR RECEIVERS-STARTING	2/3/25	25	45	✓	
INJECTION	9/8/24 - 31/6/24 - 30/7/24.	65. (93544)	130. (185016), 70.334, T.Q. 147-150		
AIR PIPES	26/6/25	0.5	100	✓	
FUEL PIPES	26/6/25	65	130	✓	
FUEL PUMPS	27/11/24	65	100	✓	
SILENCER	9/2/25	0.5	3	✓	
WATER JACKET	24/2/25	2	6	✓	
SEPARATE FUEL TANKS	24/2/25	0.2	0.5	✓	

PLANS. Are approved plans forwarded herewith for shafting? Yes Rep. 16315.  
(If not, state date of approval)Receivers Yes Rep. 16315.Separate Tanks Yes Rep. 16315.

SPARE GEAR. All spare articles required in Section 6 of the Rules for the construction &amp; outfit of Diesel engines &amp; their auxiliaries, page 99 of the Rules (1924-25) have been supplied.

The following is a correct description,

**DEUTSCHE WERFT**

AKTIENGESELLSCHAFT.

Hamburg Gröden

Manufacturer.

Dates of Survey while building	During progress of work in shops - 26/3 - 20/4 - 9/5 - 26/5 - 5/6 - 14/6 - 28/6 - 30/7 - 19/8 - 17/9 - 3/10 - 9/10 - 22/10 - 10/12 - 27/12/25 - 1/2 - 6/2 - 28/2 - 18/3 - 9/4 - 2/5 - 17/5 - 26/5 - 15/7 - 28/7 - 3/8/25 - 7/8 - 10/8 - 13/8 - 16/8 - 19/8 - 22/8 - 25/8 - 28/8 - 31/8 - 3/9 - 6/9 - 9/9 - 12/9 - 15/9 - 18/9 - 21/9 - 24/9 - 27/9 - 30/9 - 3/10 - 6/10 - 9/10 - 12/10 - 15/10 - 18/10 - 21/10 - 24/10 - 27/10 - 30/10 - 3/11 - 6/11 - 9/11 - 12/11 - 15/11 - 18/11 - 21/11 - 24/11 - 27/11 - 30/11 - 3/12 - 6/12 - 9/12 - 12/12 - 15/12 - 18/12 - 21/12 - 24/12 - 27/12 - 30/12 - 3/1/25 - 6/1/25 - 9/1/25 - 12/1/25 - 15/1/25 - 18/1/25 - 21/1/25 - 24/1/25 - 27/1/25 - 30/1/25 - 3/2/25 - 6/2/25 - 9/2/25 - 12/2/25 - 15/2/25 - 18/2/25 - 21/2/25 - 24/2/25 - 27/2/25 - 30/2/25 - 3/3/25 - 6/3/25 - 9/3/25 - 12/3/25 - 15/3/25 - 18/3/25 - 21/3/25 - 24/3/25 - 27/3/25 - 30/3/25 - 3/4/25 - 6/4/25 - 9/4/25 - 12/4/25 - 15/4/25 - 18/4/25 - 21/4/25 - 24/4/25 - 27/4/25 - 30/4/25 - 3/5/25 - 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