

AI

Revision				
Change index	-			

Motordaten
engine data


	Genset	Marine	O & G	Rail	C & I
Application	X				
Engine model	16V4000G63				
Application group	3D				
Emission Stage/Optimisation	NEA-Singapore for ORDE				
Test cycle	D2				
fuel sulphur content [ppm]	5				
mg/mN³ values base on residual oxygen value of [%]	measured				

Motor Rohemissionen*
Engine raw emissions*

Cycle point	[-]	n1	n2	n3	n4	n5	n6	n7	n8
Power (P/PN)	[-]	1	0,75	0,50	0,25	0,10			
Power	[kW]	2196	1644	1095	547	220			
Speed (n/nN)	[-]	1	1	1	1	1			
Speed	[rpm]	1503	1503	1503	1503	1503			
Exhaust temperature after turbine	[°C]	492	457	429	360	274			
Exhaust mass flow	[kg/h]	11695	9697	7347	5134	4330			
Exhaust back pressure	[mbar]	84	54	29	14	8			
NOx	[g/kWh]	6,4	5,7	5,1	4,4	9,0			
	[mg/mN³]	1632	1309	1017	621	630			
CO	[g/kWh]	0,7	0,7	0,8	1,5	2,1			
	[mg/mN³]	178	162	156	220	141			
HC	[g/kWh]	0,17	0,25	0,38	0,78	1,42			
	[mg/mN³]	46	59	79	114	96			
O2	[%]	8,9	9,9	11,0	13,1	16,1			
Particulate measured	[g/kWh]	0,03	0,05	0,10	0,29	0,48			
	[mg/mN³]	9	11	20	43	32			
Particulate calculated	[g/kWh]	-	-	-	-	-			
	[mg/mN³]	-	-	-	-	-			
Dust (only TA-Luft)	[mg/mN³]	-	-	-	-	-			
FSN	[-]	0,2	0,3	0,5	1,2	0,8			
NO/NO2**	[-]	-	-	-	-	-			
CO2	[g/kWh]	619,8	621,0	640,8	706,9	970,1			
	[mg/mN³]	163901	147282	132735	103326	65907			
SO2	[g/kWh]	0,002	0,002	0,002	0,002	0,003			
	[mg/mN³]	0,5	0,5	0,4	0,3	0,2			

* Emission data measurement procedures are consistent with the respective emission evaluation process. Noncertified engines are measured to sales data (TVU/TEN) standard conditions. These boundary conditions might not be representative for detailed dimensioning of exhaust gas aftertreatment, in this case it is recommended to contact the responsible department for more information. Measurements are subject to variation. The nominal emission data shown is subject to instrumentation, measurement, facility, and engine-to-engine variations. All data applies to an engine in new condition. Over extended operating time deterioration may occur which might have an impact on emission. Exhaust temperature depends on engine ambient conditions.

** No standard test. To be measured on demand.

							Benennung/Title		
				MTU Friedrichshafen GmbH			Emissionsdatenblatt Emission Data Sheet		
b	„Not to exceed“-Werte hinzugefügt	08.04.15	Lenhof	Datum/Date	Name/Name	Zeichnungs-Nr./Drawing No.			
a	Ergänzt Typzulassung Singapur	24.07.13	Lenhof	Bearbeiter/Drawn by	29.06.2012	Lenhof			
-	Freigabe	12.07.12	Link	Geprüft/Checked	12.07.2012	Trautz			
Buchstabe/ Revision	Änderung Modifikation	Datum Date	Name Name	Org.-Einheit/Dept	TKF	Schneemann	EDS 4000 0623		
Vers 2.0									

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