

Contents	S						
	Gens	set Marine 0 & G	Rail	C & I			
Application	X		- Ttur				
Engine model	16V4	1000G74F					
Rated power [kW]	1965						
Rated speed (rpm	1500						
Application Group) 3D						
Legislative body	NEA	Singapore for OR	DE				
Test cycle	D2		_				
Data Set No.	XZ59	9554101100					
Fuel sulphur conte	ent [ppm] 388						
Content Disclaimer						Page 2	
Emission data she	eet (EDS)					3	
Not to exceed emi	ission values						
			PDF	Name	Project no.		
			PDF	Name	-	Size	
			Configurator	Lenhof, Torsten (TATF	P) Order no.	A4	
			Approver1	Schmid, Tobias (TSLE	EDS-ID	I	
		All industrial property rights	Approver2	Breuer, Joerg (TVA)	598-06.08.2021		
		reserved. Disclosure, reproduction	Approver3 Approver4				
Description of Revision	Frequency	or use for any other purpose is	User	FN2\graeter			
Data generated by EDS Creator vers Refdataset: 16V4000G03_50Hz_19 platfrom.	ion 1.0 and uniplot. 365kW_D2.nc for 263 in EDS	prohibited unless our express permission has been given. Any infringement results in liability to pay damages.	Engine model 16V4000G7	4F	Title Emission data sheet		
		Emissionstage				Sheet	
Configuration-ID	Documentation	Emissionstage basis				of	
263	Request HDR	NEA Singapore for ORDE				7	
						1-	





General Disclaimers (valid for Measured and NTE values)

Please note that these data are physical and/or technical values only referring to and representing a normative defined operating condition. Any change in operating time and conditions will have impact on physical values and engine behavior, which must be considered and assessed within the complete propulsion system especially in regard to emission compliance and product safety.

Measurements listed in this EDS are representative of the listed engine rating at the time of testing. These measurements and results can change according to instrumentation, boundary condition, and engine to engine variability. In addition - changes to the engine family hard or software may occur which could result in changes to some of the listed values.

Emissions data measurement procedures are conducted according to applicable rules and standards as per "Emission Stage/Optimization". Potential deviations from these procedures are documented internally.

The listed emission values relate to the corresponding certification data. Seller doesn't take any responsibility or liability neither out or in connection with the contract nor on any other basis

beyond these specified operating conditions of the engine
 and for any installation/modification of the entire propulsion system by the customer itself or any third party

and the customer will indemnify MTU on first demand for any third party claim out or in connection with this.

Seller reserves the right to amend specifications and information without notice and without obligation or liability. No liability for any errors, facts or opinions is accepted. Customers must satisfy themselves as to the suitability of this product for their application. No responsibility for any loss as a result of any person placing reliance on any material contained in this data sheet will be accepted.

Seller reserves all rights in the information contained in this data sheet. It shall not be reproduced, made available to a third party or otherwise used in any way whatsoever.

When applicable, emission values are measured after combined exhaust streams.

Measured Emissions data is based on single operating points and thus cannot be used to compare to regulations which use values based on a weighted cycle.

Field emission test data are not guaranteed to these levels. Actual field test results may vary due to test site conditions, installation, fuel specification, test procedures, and instrumentation. Over time deterioration may occur which may have an impact on emission levels.

The SO2 emission rates comprehend exclusively the SO2 content as found in the fuel source, oil consumption effects are not included. Variation of sulfur content in the fuel changes only the stated SO2 emissions, cross sensitivity to other emissions (e.g. particulates) is not possible.

All values based on metric units, inaccuracies for non metric values can occur, values are not binding.

Specific to gas engines: The listed emission values are based on gas composition at the time of certification measurement. Gas composition is as displayed in the EDS-document. Carbon dioxide and methane concentrations have direct influence on the corresponding displayed carbon dioxide and methane emissions.

EAT Specific Disclaimers (valid for EDS values) NH3 emissions levels measured with AVL SESAM i60/ 4 FT Multi Component Exhaust Measurement System (FTIR) including EPA 40 CFR 1065 legislation compliant automated checks for linearity.

Generators or engines with exhaust after-treatment systems require a stabilization period of approximately 1 hour to ensure stable temperatures across SCR prior to performing an emissions test. Performing emissions measurements before a stable temperature has been achieved can result in inconsistent emission values. NOx Values only applicable if temperatures across SCR reached for DEF Dosing.

NTE Disclaimers (valid for NTE calculated values)

Calculated not to exceed values (NTE) are not proven by tests and therefore the accuracy is not guaranteed.

All emission data shown in chapters Emission Data Sheet, Not to Exceed Values, and Type Approval were gathered from a corresponding certification engine under test conditions shown above and complying to corresponding TEN data.

				PDF Configurator	Name Lenhof, Torsten (TATP)	Project no. - Order no. -	Size A4	
				Approver1	Schmid, Tobias (TSLE)	EDS-ID		
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Description of Revision		Frequency	or use for any other purpose is	User	FN2\graeter			
Data generated by EDS Creator version 1.0 and uniplot. Refdataset: 16V4000G03_50Hz_1965kW_D2.nc for 263 in EDS		prohibited unless our express permission has been given. Any infringement results in liability to pay damages.	Engine model 16V4000G74F		Emission data sheet			
			Emissionstage				Sheet	
			NEA Singapore for ORDE				2	
Configuration-ID	Documentation	ו	Emissionstage basis				of	
263	Request HDR		NEA Singapore for ORDE				7	





Engine data										
-					Genset	Marine	0 & G	Rail	C & I	
Ap	plica	tion			X					
En	igine	mo	del		16V400					
Ap	plica	tion	Group		3D			_		
Le	gisla	tive	body		NEA Si	ngapore				
Ie Te	st cy				D2					
Fu					388					
mg	mg/mN values base on				3					
res	sidua	l ox	ygen v	alue of [%]	Ŭ					
Engine raw emiss	sions	5*								
Cycle point		[-]		n1	n	2	n3		n4	n5
Power		kŴ		1973	14	75	984		492	198
Power relative		[-]		1	0.	75	0.5		0.25	0.1
Engine speed		1/m	nin	1503	15	03	1503		1503	1503
Engine speed rela	ative	[-]		1	1		1		1	1
Exhaust temperature after ETC		grd	С	497.3	47	73	442.3		361.1	275.3
Exhaust mass flow wet		kg/l	h	10946.1	906	4.7	6901.2	2	4979.5	4151.3
NOX-Emissions		g/k	Wh	6.44	5.	72	5.12		4.54	8.44
SO2-Emissions specific		g/k	Wh	0.155	0.1	57	0.162		0.181	0.249
CO-Emissions specific		g/k	Wh	0.68	0.0	68	0.82		1.73	3.02
HC1-Emissions specific		g/k	Wh	0.21	0.2	28	0.43		0.93	1.67
NMHC-Emissions specific		g/k	Wh	0.21	0.2	27	0.42		0.91	1.64
NOX+HC1-Emissi specific	ions	g/k	Wh	6.66	6	6	5.55		5.47	10.11
NOX+NMHC- Emissions specific	5	g/k	Wh	6.65	5.9	99	5.54		5.45	10.08
CO2-Emissions specific		g/k	Wh	625.8	632	2.8	656		729.3	1004.4
PM-Emissions specific (Meas.)		g/k	Wh	0.05	0.0	58	0.117		0.337	0.526
						[]	1		relact no	

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Configuration-ID	Documentatio	0	Emissionstage basis				of	
			Emissionstage NEA Singapore for ORDE				Sheet 3	
Refdataset: 16V4000G03_50Hz_1965kW_D2.nc for 263 in EDS platfrom.		or 263 in EDS	pay damages.	16V4000G7	16V4000G74F			
Data generated by EDS Creator version 1.0 and uniplot.			prohibited unless our express permission has been given. Any infringement results in liability to	Engine model		Title Emission data sheet		
Description of Revision		Frequency	or use for any other purpose is	User	FN2\graeter			
			reserved. Disclosure, reproduction	Approver4		1		
			All industrial property rights	Approver2	Breuer, Joerg (IVA)	598-06.08.2021		
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				Configurator	Lenhof, Torsten (TATP)	Order no.		A4
				PDF	Name	Project no.		Size





NOX-Emissions (based on 3% O2)	mg/m3N	2505	2171	1849	1452	2083
NOX+HC1-Emissions (based on 3% O2)	mg/m3N	2589	2278	2007	1753	2482
NOX+NMHC- Emissions (based on 3% O2)	mg/m3N	2587	2276	2004	1747	2474
CO2-Emissions (based on 3% O2)	mg/m3N	244589	243092	240442	236237	240215
CO-Emissions (based on 3% O2)	mg/m3N	266.1	261.9	302	558.9	721.5
HC1-Emissions (based on 3% O2)	mg/m3N	83.8	107	157.6	301.2	398.9
SO2-Emissions (based on 3% O2)	mg/m3N	60.5	60.1	59.5	58.6	59.5
PM-Emissions (based on 3% O2)	mg/m3N	19.5	22.1	42.7	109.2	125.9
Oxygen (O2)	%	9.4	10.4	11.3	13.5	16.2

				PDF	Name	Project no. -	Size	
				Configurator	Lenhof, Torsten (TATP)	Order no. -	A4	
				Approver1	Schmid, Tobias (TSLE)	EDS-ID		
				Approver2	Breuer, Joerg (TVA)	598-06.08.2021		
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Description of Revision		Frequency	or use for any other purpose is	User	FN2\graeter			
Data generated by EDS Creator version 1.0 and uniplot. Refdataset: 16V4000G03_50Hz_1965kW_D2.nc for 263 in EDS		prohibited unless our express permission has been given. Any infringement results in liability to pay damages.	Engine model 16V4000G7	4F	Title Emission data sheet			
			Emissionstage				Sheet	
			NEA Singapore for ORDE				4	
Configuration-ID	Documentation	n	Emissionstage basis			of		
263	Request HDR		NEA Singapore for ORDE				7	





Engine data									
			Genset	Marine	0 & G	Rail	C & I		
Ap	oplication		Х						
Er	ngine model		16V400	0G74F					
Ap	oplication Group)	3D						
Le	gislative body		NEA Sir	ngapore					
Τe	est cycle		D2						
<u>Γι</u>	uel sulphur cont	ent [ppm]	388						
m	a/mN³ values ba	ase on	•						
re	residual oxygen value of [%]								
Not to exceed en	nission values	*						1	
Cycle point	[-]	n1	n	2	n3		n4	n	5
Power	kW	1973	14	75	984		492	19	98
Power relative	[-]	1	0.7	75	0.5		0.25	0.	.1
Engine speed	1/min	1503	15	03	1503		1503	15	03
Engine speed rela	ative [[-]	1	1		1		1	-	
NOX-Emissions specific	g/kWh	8.37	7.4	43	6.65		6.8		
CO-Emissions specific	g/kWh	1.16	1.1	16	1.57		3.45		
HC1-Emissions specific	g/kWh	0.37	0.4	17	0.82		1.86		
NMHC-Emissions specific g/kWh		0.36	0.36 0.4		0.8		1.83		
NOX+HC1-Emissions specific		8.74	8.74 7.9		7.47		8.67		
NOX+NMHC- Emissions specifi	c g/kWh	8.73	8.73 7.9		7.45		8.63		
PM-Emissions specific (Meas.)	g/kWh	0.075	0.075 0.09		0.175		0.506		
NOX-Emissions (based on 3% O2) mg/m3N	3257	3257 2822		2404		2177		
NOX+HC1-Emiss (based on 3% O2	ions mg/m3N	3399	30	04	2703		2780		
NOX+NMHC- Emissions (based 3% O2)	l on mg/m3N	3396	30	00	2697		2768		
				PDF	Name		Project no.		Size
				Configurator	Lenhof, Torsten (TA	TP)	Urder no.		A4
				Approver1 Approver2	Breuer, Joerg (TVA)		598-06.08.2021		
		All industrial prope	erty rights	Approver3					
Description of Revision	Frequency	or use for any othe	re, reproduction er purpose is	Approver4 User	FN2\graeter				
Data generated by EDS Creator vers	sion 1.0 and uniplot.	prohibited unless of permission has be infringement result	our express en given. Any ts in liability to	Engine mode	/ / /4F		Title Emission data sheet		
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		Emissionstage NEA Singapore						Sheet 5	
Configuration-ID	Documentation	Emissionstage bas	sis					of	
263	Request HDR	NEA Singapore	e for ORDE					7	





CO-Emissions (based on 3% O2) mg/m3N 452.4 445.2 573.7 1117.8 HO1-Emissions (based on 3% O2) mg/m3N 142.5 182 299.5 602.4 PM-Emissions (based on 3% O2) mg/m3N 29.3 35.4 64.1 163.8 On 3% O2) mg/m3N 29.3 35.4 64.1 163.8 On 3% O2) mg/m3N 29.3 35.4 64.1 163.8 Other state of lexisor mg/m3N 29.3 35.4 64.1 163.8 Visite of lexisor state of lexisor mg/m3N 29.3 35.4 64.1 163.8 Visite of lexisor state of lexisor mg/m3N 29.3 35.4 64.1 163.8 Visite of lexisor state of lexisor mg/m3N 29.3 35.4 64.1 163.8 Visite of lexisor state of lexisor mg/m3N 29.3 16.9 16.9 16.9 Visite of lexisor state of lexisor mg/m3N 19.8 16.9 16.9 16.9 Midate of lexisor state of lexisor mg/m3N	Description of Revision Data generated by EDS Creator version 1. Refdataset: 16V4000G03_50Hz_1965kV platfrom.	Frequency .0 and uniplot. V_D2.nc for 263 in EDS	All industrial property reserved. Disclosure or use for any other p prohibited unless our permission has been infringement results i pay damages. Emissionstage	PDF Configurator Approver1 Approver2 Approver3 Approver4 User express given. Any n liability to Regine mode 16V4000GT	Name Lenhof, Torsten (TATP) Schmid, Tobias (TSLE) Breuer, Joerg (TVA) FN2\graeter FN2\graeter	Project no. - Order no. - EDS-ID 598-06.08.2021 Title Emission data shee	Size A4 et
CO-Emissions (based on 3% O2) mg/m3N 452.4 445.2 573.7 1117.8 H01-Emissions (based on 3% O2) mg/m3N 142.5 182 299.5 602.4 PM-Emissions (based on 3% O2) mg/m3N 29.3 35.4 64.1 163.8 FM-Emissions (based on 3% O2) mg/m3N 29.3 35.4 64.1 163.8	Description of Revision	Frequency	All industrial property reserved. Disclosure or use for any other p prohibited unless our permission has been	PDF Configurator Approver1 Approver2 Approver3 Approver4 Jurpose is express given. Any Engine mode	Name Lenhof, Torsten (TATP) Schmid, Tobias (TSLE) Breuer, Joerg (TVA) FN2\graeter	Project no. - Order no. - EDS-ID 598-06.08.2021 Title Emission data shee	Size A4
CO-Emissions (based on 3% O2) mg/m3N 452.4 445.2 573.7 1117.8 MC1-Emissions (based on 3% O2) mg/m3N 142.5 182 299.5 602.4 PM-Emissions (based on 3% O2) mg/m3N 29.3 35.4 64.1 163.8	Description of Revision	Frequency	All industrial property reserved. Disclosure or use for any other p	PDF Configurator Approver1 Approver2 Approver3 Approver4 User	Name Lenhof, Torsten (TATP) Schmid, Tobias (TSLE) Breuer, Joerg (TVA) FN2\graeter	Project no. - Order no. - EDS-ID 598-06.08.2021	Size A4
CO-Emissions (based on 3% O2) mg/m3N 452.4 445.2 573.7 1117.8 HC1-Emissions (based on 3% O2) mg/m3N 142.5 182 299.5 602.4 PM-Emissions (based on 3% O2) mg/m3N 29.3 35.4 64.1 163.8			All industrial property	PDF Configurator Approver1 Approver2 Approver3 Approver3	Name Lenhof, Torsten (TATP) Schmid, Tobias (TSLE) Breuer, Joerg (TVA)	Project no. - Order no. - EDS-ID 598-06.08.2021	Size A4
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CO-Emissions (based on 3% O2)mg/m3N452.4445.2573.71117.8HC1-Emissions (based on 3% O2)mg/m3N142.5182299.5602.4	1 · · · · · · · · · · · · · · · · · · ·	ed mg/m3N	29.3	35.4	64.1	163.8	
CO-Emissions (based mg/m3N 452.4 445.2 573.7 1117.8	PM-Emissions (base on 3% O2)	mg/m3in	142.5	182	299.5	602.4	
	HC1-Emissions (based on 3% O2) PM-Emissions (base on 3% O2)			110.2	573.7	1117.8	





			Gens	et Marine	0 & G	Rail	C & I			
	Application		Х							
	Engine mode		16V4	000G74F						
	Serial-numbe	r	52710	09013						
	Application G	roup	3D							
	Legislative bo	dy	NEA	Singapore	for ORD	E				
	Test cycle		D2							
	Data Set No.		XZ59	55410110	0					
	Test-Report-N	lumber	598-0	598-06.08.2021						
	Test location		SWR	SWRI						
	Date of test		10.06	10.06.2012						
	Tester		MTU	MTU a Rolls-Royce Solution						
	Date of EDS		06.08	06.08.2021						
Engine cyc	le emissions*									
Emission		Unit		Cycle value	е	NEA Singapore for				
CO cycle va	alue	g/kWh		0.94	12		3.5			
NOX+NMH	C cycle value	g/kWh		5.91	19		6.4			
Particulate cycle value	rticulate (measurement) cle value		g/kWh		0.13		0.2			

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Description of Revision Frequency		Frequency	or use for any other purpose is	User	FN2\graeter			
Data generated by EDS Creator version 1.0 and uniplot. Refdataset: 16V4000G03_50Hz_1965kW_D2.nc for 263 in EDS		prohibited unless our express permission has been given. Any infringement results in liability to pay damages.	Engine model 16V4000G74F		Emission data sheet			
			Emissionstage	•			Sheet	
			NEA Singapore for ORDE				7	
Configuration-ID	Documentation Emissionstage basis							
263	Request HDR		NEA Singapore for ORDE				7	