	Technical Sales Documentation		- ENGINE DATA -			MTU Project No.			
	Printout: (y-m-d) 2007-12-13						,		
No.		Index	Unit	16V4000G23					
	Application Group MTU data code Intake air temperature Charge-air coolant temperature Barometric pressure Site altitude above sea level Raw-water inlet temperature		°C ℃ mbar m	3B 10 25 55 1000 100 -					
	0. DATA-RELEVANT ENGINE DESIGN CONFIGURATIO	DN		· · · ·					
1	Fuel-consumption optimized								
2	Exhaust-emissions optimized (limit values see Exhaust Emissions, Chapter 21)			x					
47	"TA-Luft" (German clean-air standard)			x					
17	Complies with: Regulations for stationary power plants in France (arrêté du 25 Juillet 1997)								
18	Complies with: US EPA, regulation for nonroad engines (40 CFR 89 - Tier 1 -)								
37	Complies with: US EPA regulations for nonroad engines (40 CFR 89 - Tier 1 -) NOx-20%								
33	Complies with: US EPA regulations for nonroad engines (40 CFR 89 - Tier 1 -) NOx-40%								
25	Complies with: US EPA, regulation for nonroad engines (40 CFR 89 - Tier 2 -)								
8	Engine rated speed switchable (1500/1800 rpm)								
12	Engine with sequential turbocharging (turbochargers with cut-in/cut-out control)								
13	Engine without sequential turbocharging (turbochargers without cut-in/cut-out control)			x					
	1. POWER-RELATED DATA (power ratings are net brak	e power	to ISO 3046)	1		1 1			
1	Engine rated speed	A	rpm	1500					
3	Mean piston speed		m/s	10.5					
4	Continuous power ISO 3046 (10% overload capability) (design power DIN 6280, ISO 8528)	A	kW	1798					
5	Fuel stop power ISO 3046	A	KVV	1978					
8	(Continuous power ISO 3046)		bar	18.9					
9	(Fuel stop power ISO 3046)		bar	20.7					
	2. GENERAL CONDITIONS (for maximum power)			1					
1	Intake air depression (new filter)	A	mbar	15					
2	Intake air depression, max.	L	mbar	50					
3	Exhaust back pressure	A	mbar	30					
4	Exhaust back pressure, max.	L	mbar	85					
5	Fuel temperature at fuel feed connection	R	°C	25					
10	Fuel temperature at fuel feed connection, max.	L	°C	55					
18	Fuel temperature at fuel feed connection, min.	L	°C						
	3. CONSUMPTION					,			
17	Specific fuel consumption (be) - 100 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	G	g/kWh	219					
18	Specific fuel consumption (be) - 75 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	g/kWh	214					
19	Specific fuel consumption (be) - 50 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	g/kWh	217					

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	Printout: (y-m-d) 2007-12-13							
No.		Index	Unit	16V4000G23				
	Application Group MTU data code Intake air temperature Charge-air coolant temperature Barometric pressure Site altitude above sea level Raw-water inlet temperature		°C °C mbar m °C	3B 10 25 55 1000 100 -				
20	Specific fuel consumption (be) - 25 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	g/kWh	240				
21	Specific fuel consumption (be) - FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	g/kWh	220				
73	No-load fuel consumption	R	kg/h	30.0				
61	Lube oil consumption after 100 h of operation (B = fuel consumption per hour)	R	% of B	0.3				
62	Lube oil consumption after 100 h of operation, max. (B = fuel consumption per hour)	L	% of B	1.0				
	4. MODEL-RELATED DATA (basic design)							
3	Engine with exhaust turbocharger (ETC) and intercooler			Х				
4	Exhaust piping, non-cooled			Х				
5	Exhaust piping, liquid-cooled							
33	Working method: four-cycle, diesel, single-acting			х				
34	Combustion method: direct injection			Х				
36	Cooling system: conditioned water			Х				
37	Direction of rotation: c.c.w. (facing driving end)			Х				
6	Number of cylinders			16				
7	Cylinder configuration: V angle		degrees	90				
10	Bore		mm	170				
11	Stroke		mm	210				
12	Displacement, cylinder		liter	4.77				
13	Displacement, total		liter	76.3				
14	Compression ratio			16.5				
40	Cylinder heads: single-cylinder			Х				
41	Cylinder liners: wet, replaceable			Х				
42	Piston design: composite piston							
49	Piston design: solid-skirt piston			Х				
24	Number of inlet valves, per cylinder			2				
25	Number of exhaust valves, per cylinder			2				
15	Number of turbochargers			4				
18	Number of intercoolers			1				
28	Standard flywheel housing flange (engine main PTO)		SAE	00				
50	Static bending moment at standard flywheel housing flange, max.	L	kNm	15				
51	Dynamic bending moment at standard flywheel housing flange, max.	L	kNm	75				
43	Flywheel interface		DISC	21				
46	Engine mass diagram, drawing No.							
47	Engine mass diagram, drawing No. (cont.)							
	5. COMBUSTION AIR / EXHAUST GAS					 		
8	Charge-air pressure before cylinder - CP	R	bar abs	3.3				
27	Charge-air pressure before cylinder - FSP	R	bar abs	3.5				
9	Combustion air volume flow - CP	R	m³/s	3.2				
10	Combustion air volume flow - FSP	R	m³/s	3.3				
11	Exhaust volume flow (at exhaust temperature) - CP	R	m³/s	7.4		 		

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	Technical Sales Documentation		- ENG		۹-	MTU Project No.			
	Printout: (y-m-d) 2007-12-13								
No.		Index	Unit	16V4000G23					
	Application Group MTU data code Intake air temperature Charge-air coolant temperature Barometric pressure Site altitude above sea level Raw-water inlet temperature		°C ℃ mbar °C	3B 10 25 55 1000 100 -					
12	Exhaust volume flow (at exhaust temperature) - FSP	R	m³/s	7.9					
15	Exhaust temperature after turbocharger - CP	R	°C	480					
16	Exhaust temperature after turbocharger - FSP	R	°C	495					
	6. HEAT DISSIPATION								
15	Heat dissipated by engine coolant - CP with oil heat, without charge-air heat	R	kW	790					
16	Heat dissipated by engine coolant - FSP with oil heat, without charge-air heat	R	kW	830					
26	Charge-air heat dissipation - CP	R	kW	460					
27	Charge-air heat dissipation - FSP	R	kW	500					
31	Heat dissipated by return fuel flow - CP	R	kW	13					
32	Heat dissipated by return fuel flow - FSP	R	kW	13					
33	Radiation and convection heat, engine - CP	R	kW	90					
34	Radiation and convection heat, engine - FSP	R	kW	90					
	7. COOLANT SYSTEM (high-temperature circuit)		Γ						
17	Coolant temperature (at engine outlet to cooling equipment)	A	°C	100					
57	Coolant temperature differential after/before engine,	R	°C	10					
58	Coolant temperature differential after/before engine, to	R	°C	12					
23	Coolant temperature differential after/before engine	L	°C	14					
20	Coolant temperature after engine, alarm	R	°C	102					
21	Coolant temperature after engine, shutdown	L	°C	104					
25	Coolant antifreeze content, max.	L	%	50					
30	Cooling equipment: coolant flow rate	A	m³/h	68.5					
35	Coolant pump: inlet pressure, min.	L	bar	0.5					
36	Coolant pump: inlet pressure, max.	L	bar	1.5					
41	Pressure loss in off-engine cooling system, max.	L	bar	0.7					
47	Breather valve (expansion tank) opening pressure (excess pressure)	R	bar	1.0					
48	Breather valve (expansion tank) opening pressure (depression)	R	bar	-0.1					
54	Cooling equipment: height above engine, max.	L	m	15					
53	Cooling equipment: operating pressure	A	bar	2.5					
73	Coolant level in expansion tank, below min. alarm	L							
74	Coolant level in expansion tank, below min. shutdown	L		x					
50	Thermostat, starts to open	R	°C	79					
	8. COOLANT SYSTEM (low-temperature circuit)			1					
9	Coolant temperature before intercooler (at engine inlet from cooling equipment)	A	°C	55					
14	Coolant temperature before intercooler, alarm	R	°C	75					
61	Coolant temperature before intercooler, shutdown	L	°C						
54	Coolant temperature differential after/before intercooler, min.	L	°C	11					
55	Coolant temperature differential after/before intercooler, max.	L	°C	15					

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	Printout: (y-m-d) 2007-12-13		2.10					
No.		Index	Unit	16V4000G23				
	Application Group MTU data code Intake air temperature Charge-air coolant temperature Barometric pressure Site altitude above sea level Raw-water inlet temperature		°C °C mbar m °C	3B 10 25 55 1000 100 -				
13	Coolant antifreeze content, max.	L	%	50				
17	Charge-air temperature after intercooler, max.	L	°C	80				
76	Temperature differential between intake air and charge-air coolant before intercooler	А	к	30				
75	Temperature differential between intake air and charge-air coolant before intercooler, max.	L	к	22				
45	Charge-air temperature after intercooler, max. for compliance with "TA-Luft" at CP	L	°C					
20	Cooling equipment: coolant flow rate	A	m³/h	30				
21	Intercooler: coolant flow rate	R	m³/h	30				
24	Coolant pump: inlet pressure, min.	L	bar	0.5				
25	Coolant pump: inlet pressure, max.	L	bar	1.5				
29	Pressure loss in off-engine cooling system, max.	L	bar	0.7				
43	Cooling equipment: height above engine, max.	L	m	15		 		
36	Breather valve (expansion tank) opening pressure (excess pressure)	R	bar	1.0				
37	Breather valve (expansion tank) opening pressure (depression)	R	bar	-0.1				
42	Cooling equipment: operating pressure	A	bar	2.5				
67	Coolant level in expansion tank, below min. alarm	L						
68	Coolant level in expansion tank, below min. shutdown	L		x				
39	Thermostat, starts to open	R	°C	38				
	10. LUBE OIL SYSTEM		1	1		 		
1	Lube oil operating temp. before engine, from	R	°C	89				
2	Lube oil operating temp. before engine, to	R	°C	95				
5	Lube oil temperature before engine, alarm	R	°C	97				
6	Lube oil temperature before engine, shutdown	L	°C	102				
8	Lube oil operating press. bef. engine, from	R	bar	4.0				
9	Lube oil operating press. bef. engine, to	R	bar	5.5		 		
10	Lube oil pressure before engine, alarm	R	bar			 		
11	Lube oil pressure before engine, shutdown	L	bar			 		
19	Lube oil fine filter (main circuit): number of units			5				
20	Lube oil fine filter (main circuit): number of elements per unit			1				
21	Lube oil fine filter (main circuit): particle retention	R	mm	0.012				
32	Lube oil fine filter (main circuit): pressure differential, max.	L	bar	1.5				
	11. FUEL SYSTEM			1 1		 		
1	Fuel pressure at fuel feed connection, min. (when engine is starting)	L	bar	-0.1				
2	Fuel pressure at fuel feed connection, max. (when engine is starting)	L	bar	1.5				
65	Fuel pressure at fuel feed connection, max. (permanent)	L	bar	0.5				
37	Fuel supply flow, max.	R	liter/min	14				

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	Technical Sales Documentation		- ENG	INE DATA -		MTU Pro	piect No.	
	Printout: (y-m-d) 2007-12-13							
No.		Index	Unit	16V4000G23				
	Application Group MTU data code Intake air temperature Charge-air coolant temperature Barometric pressure Site altitude above sea level Raw-water inlet temperature		°C °C mbar m °C	3B 10 25 55 1000 100 -				
8	Fuel return flow, max.	R	liter/min	6				
10	Fuel pressure at return connection on engine, max.	L	bar	0.5				
12	Fuel temperature differential before/after engine	R	°C	16				
38	Fuel temperature after high-pressure pump, alarm	L	°C	100				
39	Fuel temperature after high-pressure pump, shutdown	L	°C					
15	Fuel prefilter: number of units	А						
16	Fuel prefilter: number of elements per unit	А						
17	Fuel prefilter: particle retention	А	mm					
18	Fuel fine filter (main circuit): number of units	А		1				
19	Fuel fine filter (main circuit): number of elements per unit	А		1				
20	Fuel fine filter (main circuit): particle retention	A	mm	0.005				
21	Fuel fine filter (main circuit): pressure differential, max.	L	bar	1.0				
	12. GENERAL OPERATING DATA		[
1	Cold start capability: air temperature (w/o starting aid, w/o preheating) - (case A)	R	°C	10				
2	Additional condition (to case A): engine coolant temperature	R	°C	10				
3	Additional condition (to case A): lube oil temperature	R	°C	10				
4	Additional condition (to case A): lube oil viscosity	R	SAE	30				
9	Cold start capability: air temperature (w/o starting aid, w/ preheating) - (case C)	R	°C	0				
10	Additional condition (to case C): engine coolant temperature	R	°C	40				
11	Additional condition (to case C): lube oil temperature	R	°C	-10				
12	Additional condition (to case C): lube oil viscosity	R	SAE	15W40				
13	Cold start capability: air temperature (w/ starting aid, w/ preheating) - (case D)	R	°C	-15				
14	Additional condition (to case D): engine coolant temperature	R	°C	40				
15	Additional condition (to case D): lube oil temperature	R	°C	-15				
16	Additional condition (to case D): lube oil viscosity	R	SAE	10W40				
21	Coolant preheating, heater performance (standard)	R	kW	9				
22	Coolant preheating, preheating temperature (min.)	R	°C	32				
28	Breakaway torque (without driven machinery) coolant temperature +5°C	R	Nm	2200				
30	Breakaway torque (without driven machinery) coolant temperature +40°C	R	Nm	1750				
29	Cranking torque at firing speed (without driven machinery)	R	Nm	1200				
31	Cranking torque at firing speed (without driven machinery)	R	Nm	880				
96	Starting is blocked if the engine coolant temperature is below		°C	0				
93	Run-up period to rated speed (with driven machinery) (* at general conditions)	R	s	6				
37	High idling speed, max. (static)	L	rpm	1700				
38	Limit speed for overspeed alarm / emergency shutdown	L	rpm	1750				

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	Printout: (y-m-d) 2007-12-13						-	
No.		Index	Unit	16V4000G23				
	Application Group MTU data code Intake air temperature Charge-air coolant temperature Barometric pressure Site altitude above sea level Raw-water inlet temperature		°C °C mbar m °C	3B 10 25 55 1000 100 -				
42	Firing speed, from	R	rpm	80				
43	Firing speed, to	R	rpm	120				
44	Engine coolant temperature before starting full-load operation, recommended min. (for emergency/standby sets with coolant preheating: at least the preheating temperature)	L	°C	60				
48	Minimum continuous load	R	%	20				
50	Engine mass moment of inertia (without flywheel)	R	kgm²	12.7				
51	Engine mass moment of inertia (with standard flywheel)	R	kgm²	23.1				
55	Load application sequence (1st load stage) (seconds after start command) (* at additonal conditions)	R	s					
56	Load application sequence (2nd load stage) (seconds after start command) (* at additional conditions)	R	S					
57	Load application sequence (3rd load stage) (seconds after start command) (* at additional conditions)	R	s					
58	Load application sequence (1st load stage) (% of engine continuous power) (* at additional conditions)	R	%					
59	Load application sequence (2nd load stage) (% of engine continuous power) (* at additional conditions)	R	%					
60	Load application sequence (3rd load stage) (% of engine continuous power) (* at additional conditions)	R	%					
94	Additional conditions*: engine preheated, transient speed droop max10 %, plant mass moment of inertia, min.	R	kgm²					
69	Speed droop (with electronic governor) adjustable, from	R	%	0	 			
70	Speed droop (with electronic governor) adjustable, to	R	%	10				
95	Number of starter ring-gear teeth on engine flywheel			182				
	13. STARTING (electric)							
12	Starter, rated power (make DELCO) (standard design)	R	kW					
2	Starter, rated voltage (standard design)	R	V=	24				
14	Starter, power requirement max. (make DELCO)	R	А					
15	Starter, power requirement at firing speed (make DELCO)	R	А					
16	Start attempt duration (engine preheated)	R	s	3				
17	Start attempt duration (engine not preheated)	R	s	N				
18	Start attempt duration, max.	L	s	30				
	15. STARTING (pneumatic/oil pressure starter)				 			
5	Starting air pressure before starter motor, min.	R	bar	8				
6	Starting air pressure before starter motor, max.	R	bar	10				
7	Starting air pressure before starter motor, min.	L	bar	8				
8	Starting air pressure before starter motor, max.	L	bar	10				
18	Start attempt duration (engine preheated)	R	S	3				
19	Start attempt duration (engine not preheated)	R	S	5				

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No.		Index	Unit	16V4000G23					
	Application Group MTU data code Intake air temperature Charge-air coolant temperature Barometric pressure Site altitude above sea level Raw-water inlet temperature		°C °C mbar m °C	3B 10 25 55 1000 100 -					
20	Start attempt duration, max.	L	s						
21	Air consumption / start attempt (engine preheated)	R	m^3n	0.6					
23	Starting air tank for 3 start attempts (max. 40 bar) (engine preheated)	R	liter	55					
24	Starting air tank for 3 start attempts (max. 30 bar) (engine preheated)	R	liter	75					
25	Starting air tank for 6 start attempts (max. 40 bar) (engine preheated)	R	liter	110					
26	Starting air tank for 6 start attempts (max. 30 bar) (engine preheated)	R	liter	150					
27	Starting air tank for 10 start attempts (max. 40 bar) (engine preheated)	R	liter	185					
28	Starting air tank for 10 start attempts (max. 30 bar) (engine preheated)	R	liter	250					
	16. INCLINATIONS - STANDARD OIL SYSTEM (ref.: wa	terline)	[1					
15	Longitudinal inclination, continuous max. driving end down (Option: max. operating inclinations)	L	degrees	5					
16	Longitudinal inclination, temporary max. driving end down (Option: max. operating inclinations)	L	degrees						
17	Longitudinal inclination, continuous max. driving end up (Option: max. operating inclinations)	L	degrees	5					
18	Longitudinal inclination, temporary max. driving end up (Option: max. operating inclinations)	L	degrees						
19	Transverse inclination, continuous max. (Option: max. operating inclinations)	L	degrees	10					
20	Transverse inclination, temporary max. (Option: max. operating inclinations)	L	degrees						
27	Longitudinal inclination, continuous max. driving end down (Option: max. replenishment period)	L	degrees						
28	Longitudinal inclination, temporary max. driving end down (Option: max. replenishment period)	L	degrees						
29	Longitudinal inclination, continuous max. driving end up (Option: max. replenishment period)	L	degrees						
30	Longitudinal inclination, temporary max. driving end up (Option: max. replenishment period)	L	degrees						
31	Transverse inclination, continuous max. (Option: max. replenishment period)	L	degrees						
32	Transverse inclination, temporary max. (Option: max. replenishment period)	L	degrees						
	18. CAPACITIES			i					
1	Engine coolant capacity (without cooling equipment)	R	liter	175					
10	Intercooler coolant capacity	R	liter	50					
11	On-engine fuel capacity	R	liter	8					
14	Engine oil capacity, initial filling (standard oil system) (Option: max. operating inclinations)	R	liter	300					

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	Printout: (y-m-d) 2007-12-13						,	
No.		Index	Unit	16V4000G23				
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15	Engine oil capacity, initial filling (standard oil system) (Option: max. replenishment period)	R	liter					
20	Oil change quantity, max. (standard oil system) (Option: max. operating inclinations)	R	liter	240				
21	Oil change quantity, max. (standard oil system) (Option: max. replenishment period)	R	liter					
28	Oil pan capacity, dipstick mark min. (standard oil system) (Option: max. operating inclinations)	L	liter	210				
29	Oil pan capacity, dipstick mark max. (standard oil system) (Option: max. operating inclinations)	L	liter	240				
30	Oil pan capacity, dipstick mark min. (standard oil system) (Option: max. replenishment period)	L	liter					
31	Oil pan capacity, dipstick mark max. (standard oil system) (Option: max. replenishment period)	L	liter					
	19. WEIGHTS / DIMENSIONS							
9	Engine weight, dry (basic engine configuration acc. to scope of supply specification)	R	kg	7700				
10	Engine weight, wet (basic engine configuration acc. to scope of supply specification)	R	kg					
	21. EXHAUST EMISSIONS	1			1			
406	"TA-Luft" - CP Nitric oxide (NOx) (5% O2)	G	mg/m^3n	1700				
407	"TA-Luff" - CP Carbon monoxide (CO) (5% O2)	R	mg/m^3n	300				
408	"TA-Luft" - CP Unburned hydrocarbons (HC)	G	mg/m^3n	150				
409	"TA-Luft" - CP Dust (5% O2)	G	mg/m^3n	50				
410	"TA-Luft" - CP Formaldehyde (5% O2)	G	mg/m^3n	60				
311	Regulation: stationary power plants in France - CP Nitric oxide (NOx) (5% O2)	G	mg/m^3n					
312	Regulation: stationary power plants in France - CP Carbon monoxide (CO) (5% O2)	G	mg/m^3n					
313	Regulation: stationary power plants in France - CP Unburned hydrocarbons (NMHC)	G	mg/m^3n					
314	Regulation: stationary power plants in France - CP Dust / particulates (5% O2)	G	mg/m^3n					
316	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 1 -) Nitric oxide (NOx)	G	g/kWh					
371	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 1 -) NOx-20% Nitric oxide (NOx)	G	g/kWh					
365	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 1 -) NOx-40% Nitric oxide (NOx)	G	g/kWh					

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	Printout: (y-m-d) 2007-12-13									
No.	Application Occurs	Index	Unit	16V4000G23						
	Application Group MTU data code Intake air temperature Charge-air coolant temperature Barometric pressure Site altitude above sea level Raw-water inlet temperature		°C °C mbar m °C	3B 10 25 55 1000 100 -						
317	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 1 -) Carbon monoxide (CO)	G	g/kWh							
318	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 1 -) Unburned hydrocarbons (HC)	G	g/kWh							
319	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 1 -) Particulates	G	g/kWh							
320	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 2 -) Nitric oxide (NOx) + unburned hydrocarbons (HC)	G	g/kWh							
321	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 2 -) Carbon monoxide (CO)	G	g/kWh							
323	Regulation: US EPA "Nonroad" (40 CFR 89 - Tier 2 -) Particulates	G	g/kWh							
141	Exhaust volume flow, dry - CP (standard conditions)	R	m³/h							
143	Exhaust mass flow - CP (reference conditions)	R	kg/h	11500						
144	Residual oxygen content (O2) in dry exhaust - CP (standard conditions)	R	% (vol.)	10.1						
145	Total combustion calorific value - CP	R	kW							
	22. ACOUSTICS		1	1				1		
101	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798)	R	dB(A)	113						
201	Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798)	R	dB(A)	126						
102	Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798)	R	dB(A)							
202	Exhaust noise, unsilenced - FSP (sound power level LW, ISO 6798)	R	dB(A)							
103	Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.			733779e						
203	Exhaust noise,unsilenced - CP (sound power level LW, ISO 6798) Spectrum No.			Ν						
104	Exhaust noise, unsilenced - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.									
204	Exhaust noise,unsilenced - FSP (sound power level LW, ISO 6798) Spectrum No.									
109	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798)	R	dB(A)	108						
209	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798)	R	dB(A)	127						

Explanation:
 CP = Ref.value: Continuous power
 FSP = Ref.value: Fuel stop power

 A = Design value
 G = Guaranteed value
 L = Limit value, up to which the engine can be operated, without change (e.g. of power setting)
 R = Guideline value

 X = Applicable
 - = Not applicable
 N = Not yet defined value
 Z = See notes provided after "ENGINE DATA"
 R = Guideline value

	Technical Sales Documentation					MTU Project No				
	Printout: (y-m-d) 2007-12-13		- ENG	DATA	-			Dject NO.		
No.		Index	Unit	16V4000G23						
	Application Group MTU data code Intake air temperature Charge-air coolant temperature Barometric pressure Site altitude above sea level Raw-water inlet temperature		°C °C mbar m °C	3B 10 25 55 1000 100 -						
110	Engine surface noise with attenuated intake noise (filter) - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798)	R	dB(A)							
210	Engine surface noise with attenuated intake noise (filter) - FSP (sound power level LW, ISO 6798)	R	dB(A)							
111	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.			733777e						
211	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798) Spectrum No.			N						
112	Engine surface noise with attenuated intake noise (filter) - FSP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.									
212	Engine surface noise with attenuated intake noise (filter) - FSP (sound power level LW, ISO 6798) Spectrum No.									
125	Structure borne noise at engine mounting brackets in vertical direction above resilient engine mounts - CP Spectrum No.			733776e						
126	Structure borne noise at engine mounting brackets in vertical direction above resilient engine mounts - FSP Spectrum No.									
129	Test stand impedance spectrum, Diagram No.									
130	Test stand impedance spectrum, Diagram No. (cont.)									
	23. TBO AND LOAD PROFILE (case A)									
15	Maintenance schedule No.									
16	Maintenance schedule No. (cont.)									