

Name 20V4000G44F

Application Group 3B

Dataset Ref. 25°C/45°C Speed [rpm] 1500 Nominal power [kW] 2807 Nominal power [bhp] 3764 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

Reference conditions

No.	Description	Index	Value	Unit
6	Intake air temperature		25	°C
7	Charge-air coolant temperature		45	°C
8	Barometric pressure		1000	mbar
9	Site altitude above sea level		100	m

0. Data-relevant engine design configuration

No.	Description	Index	Value	Unit
10	Engine without sequential turbocharging		v	
13	(turbochargers without cut-in/cut-out control)		^	-

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	А	1500	rpm
3	Mean piston speed		10.5	m/s
4	Continuous power ISO 3046 (10% overload capability)	^	2807	kW
4	(design power DIN 6280, ISO 8528)	Α	2807	KVV
5	Fuel stop power ISO 3046	А	3088	kW
0	Mean effective pressure (MEP)		23.5	har
٥	(Continuous power ISO 3046)		23.3	bar
0	Mean effective pressure (MEP)		25.9	har
9	(Fuel stop power ISO 3046)		23.3	bar

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
46	Individual power calculation (ESCM)		v	
40	required for maximum power		^	-
3726	Site altitude above sea level, max.		1300	m
3720	(special hardware required for altitudes > site altitude)	L	1300	m
3727	Special hardware for altitude > site altitude needed		Х	
3/2/	(see chapter 2, item No. 3726)		^	-
1	Intake air depression (new filter)	Α	15	mbar
3332	Intake air depression for new system	Α	15	mbar
2	Intake air depression, max.	L	30	mbar
3	Exhaust back pressure	Α	30	mbar
51	Exhaust overpressure	^	30	mbar
31	(total pressure against atmosphere)	А	30	IIIDai
52	Exhaust overpressure, max.		50	mbar
32	(total pressure against atmosphere)	L	130	IIIDai
5	Fuel temperature at fuel feed connection	R	25	°C
6	Fuel temperature at fuel feed connection, max.	L	55	°C

BL Reference value: fuel stop power Maximum engine power that cannot be run continuously on some applications (stabilization reserve)
DL Reference value: continuous power Engine power that can be run continuously under standard conditions

Actual value must be greater than specified value
 Actual value must be less than specified value

X Applicable
The module is valid for this product type
Non-applicable
The module is not valid for this product type
N Value not named
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Q	Fuel temperature at fuel feed connection, max.		55	°C
3	(w/o power reduction)	_	33	C

3. Consumption

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP	R	193	g/kWh
17	(+ 5 %; EN 590; 42.8 MJ/kg)	I.	193	g/KVVII
18	Specific fuel consumption (be) - 75 % CP	R	191	g/kWh
10	(+ 5 %; EN 590; 42.8 MJ/kg)	K	191	g/KVVII
19	Specific fuel consumption (be) - 50 % CP	' ' ' ' ' IR 12	206	g/kWh
19	(+ 5 %; EN 590; 42.8 MJ/kg)	I.	200	g/KVVII
20	Specific fuel consumption (be) - 25 % CP	R	231	g/kWh
20	(+ 5 %; EN 590; 42.8 MJ/kg)	K	231	g/KVVII
73	No-load fuel consumption	R	50	kg/h
	Lube oil consumption after 100 h of operation			
	(B = fuel consumption per hour)			
92	Guideline value does not apply for the design	R	0.2	% of B
	of EGAT systems. Please consult the Applications			
	Center with regard to the layout of EGA systems.			
62	Lube oil consumption after 100 h of operation, max.	l	0.5	% of B
02	(B = fuel consumption per hour)	L	0.5	

4. Model-related data (basic design)

No.	Description	Index	Value	Unit
3	Engine with exhaust turbocharger (ETC) and intercooler		Х	-
4	Exhaust piping, non-cooled		Х	-
33	Working method: four-cycle, diesel, single-acting		Х	-
34	Combustion method: direct injection		X	-
36	Cooling system: conditioned water		Х	-
37	Direction of rotation: c.c.w. (facing driving end)		X	-
6	Number of cylinders		20	-
7	Cylinder configuration: V angle		90	degrees (°)
10	Bore		170	mm
11	Stroke		210	mm
12	Displacement, cylinder		4.77	liter
13	Displacement, total		95.4	liter
14	Compression ratio		16.4	-
40	Cylinder heads: single-cylinder		X	-
41	Cylinder liners: wet, replaceable		Х	-
49	Piston design: solid-skirt piston		X	-
21	Number of piston compression rings		2	-
22	Number of piston oil control rings		1	-
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		2	-

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16	Number of L.P. turbochargers		2	-
18	Number of intercoolers		1	-
19	Number of L.P. intercoolers		1	-
28	Standard flywheel housing flange (engine main PTO)		00	SAE
50	Static bending moment at standard		15	kNm
30	flywheel housing flange, max.	L		
E 1	Dynamic bending moment at standard		75	kNm
51	flywheel housing flange, max.	[-	/3	KINIII
43	Flywheel interface (DISC)		21	-

5. Combustion air / exhaust gas

No.	Description	Index	Value	Unit
8	Charge-air pressure before cylinder - CP	R	3.6	bar abs
9	Combustion air volume flow - CP	R	4.0	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	9.6	m³/s
13	Exhaust temperature before turbocharger - CP	R	600	°C
17	Exhaust temperature after engine - CP	R	430	°C
58	Exhaust temperature after engine (turbocharger), max.	L	550	°C

6. Heat dissipation

No.	Description	Index	Value	Unit
15	Heat dissipated by engine coolant - CP	D	R 945	kW
13	with oil heat, without charge-air heat	K		KVV
26	Charge-air heat dissipation - CP	R	745	kW
31	Heat dissipated by return fuel flow - CP	R	7.5	kW
33	Radiation and convection heat, engine - CP	R	105	kW

7. Coolant system (high-temperature circuit)

No.	Description	Index	Value	Unit
17	Coolant temperature		100.0	0.0
1/	(at engine outlet to cooling equipment)	Α		°C
57	Coolant temperature differential after/before engine, from	R	10.0	K
58	Coolant temperature differential after/before engine, to	R	12.0	K
23	Coolant temperature differential after/before engine	L	14.0	K
20	Coolant temperature after engine, limit 1	L	102.0	°C
21	Coolant temperature after engine, limit 2	L	104.0	°C
25	Coolant antifreeze content, max.	L	50.0	%
127	Cooling equipment: coolant flow rate		75	3/h
127	at max. pressure loss in off-engine cooling System (see item No. 41)	A		m³/h
120	Cooling equipment: coolant flow rate		00	3/1-
128	at min. pressure loss in off-engine cooling System (see item No. 72)	A	80	m³/h
31	Coolant pump: pressure differential	R	2.25	bar
35	Coolant pump: inlet pressure, min.	L	0.50	bar
36	Coolant pump: inlet pressure, max.	L	2.50	bar

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39	Engine: coolant pressure differential	R	1.70	har
39	with thermostat	K	1.70	bar
41	Pressure loss in off-engine cooling system, max.	L	0.70	bar
72	Pressure loss in off-engine cooling system, min.	L	0.3	bar
43	Pressure loss in off-engine cooling system, max.		0.70	hau
43	without thermostat	L	0.70	bar
70	Pressure loss in off-engine cooling system, min.		0.3	hau
70	without thermostat	-	0.3	bar
	Breather valve (expansion tank)	D	1.0	hau
47	opening pressure (excess pressure)	R		bar
54	Cooling equipment: height above engine, max.	L	15	m
53	Cooling equipment: operating pressure	А	2.50	bar
74	Coolant level in expansion tank, below min.	1	Х	
74	shutdown	-	^	-
50	Thermostat, starts to open	R	79.0	°C
51	Thermostat, bypass closed	R	92.0	°C
52	Thermostat, fully open	R	92.0	°C
48	Breather valve (expansion tank)	D	-0.1	hau
40	opening pressure (depression)	R	-0.1	bar
49	Pressure in cooling system, max.	L	5.0	bar

8. Coolant system (low-temperature circuit)

No.	Description	Index	Value	Unit
53	Coolant temperature	D	70.0	°C
33	(at engine outlet to cooling equipment)	R		L C
0	Coolant temperature before intercooler	^	45.0	°C
9	(at engine inlet from cooling equipment)	A	45.0	C
14	Coolant temperature before intercooler, limit 1	L	75.0	°C
15	Coolant temperature before intercooler, limit 2	L	78.0	°C
54	Coolant temperature differential after/before		18.0	V
34	intercooler, min.	L	18.0	K
55	Coolant temperature differential after/before		30.0	V
33	intercooler, max.	L	30.0	K
13	Coolant antifreeze content, max.	L	50.0	%
17	Charge-air temperature after intercooler, max.	L	80.0	°C
76	Temperature differential between intake air and		20.0	V
70	charge-air coolant before intercooler	A		K
75	Temperature differential between intake air and		22.0	K
/3	charge-air coolant before intercooler, max.	L		K
56	Coolant pump: flow rate	А	44.0	m³/h
18	Coolant pump: flow rate (± 5 %)	R	44.0	m³/h
20	Cooling equipment: coolant flow rate	А	44.0	m³/h
80	Cooling equipment: coolant flow rate	А	43	m³/h
30	at max. pressure loss in off-engine cooling system	A	40	111 /11
81	Cooling equipment: coolant flow rate	٨	50	m³/h
0.1	at min. pressure loss in off-engine cooling system	A	30	lin. Au

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21	Intercooler: coolant flow rate	R	44.0	m³/h
24	Coolant pump: inlet pressure, min.	L	0.5	bar
25	Coolant pump: inlet pressure, max.	L	2.5	bar
29	Pressure loss in off-engine cooling system, max.	L	1.0	bar
62	Pressure loss in off-engine cooling system, min.	L	0.3	bar
31	Pressure loss in off-engine cooling system, max.		1.0	har
31	without thermostat		1.0	bar
63	Pressure loss in off-engine cooling system, min.		0.2	hau
63	without thermostat	L	0.3	bar
43	Cooling equipment: height above engine, max.	L	15	m
36	Breather valve (expansion tank)	D.	1.00	har
30	opening pressure (excess pressure)	R	1.00	bar
37	Breather valve (expansion tank)		0.10	L
37	opening pressure (depression)	R	-0.10	bar
42	Cooling equipment: operating pressure	Α	2.50	bar
CO	Coolant level in expansion tank, below min.		V	
68	shutdown	L	X	-
39	Thermostat, starts to open	R	38.0	°C
40	Thermostat, bypass closed	R	51.0	°C
41	Thermostat, fully open	R	51.0	°C

10 Lube oil system

IV. Lu	ibe on system			
No.	Description	Index	Value	Unit
1	Lube oil operating temp. before engine, from	R	85	°C
2	Lube oil operating temp. before engine, to	R	98	°C
3	Lube oil operating temp. after engine, from	R	98	°C
4	Lube oil operating temp. after engine, to	R	108	°C
5	Lube oil temperature before engine, limit 1	L	99	°C
6	Lube oil temperature before engine, limit 2	L	101	°C
7	Lube oil operating pressure before engine		5.1	l
/	(measuring block)	R	5.1	bar
8	Lube oil operating press. bef. engine, from	R	4.3	bar
9	Lube oil operating press. bef. engine, to	R	7.1	bar
33	Lube oil pressure before engine, limit 1(speed-related value, consult MTU)	L	3.5	bar
34	Lube oil pressure before engine, limit 2 (speed-related value, consult MTU)	L	3.2	bar
17	Lube oil pump(s): oil flow, total	R	835	liter/min
10	Lube oil fine filter (main circuit):		1	
19	number of units			_
20	Lube oil fine filter (main circuit):		_	
20	number of elements per unit		5	-
24	Lube oil fine filter (main circuit):		0.042	
21	particle retention	R	0.012	mm
22	Lube oil fine filter (main circuit):			
32	pressure differential, max.	L	1.5	bar
25	Lube oil fine filter (main circuit):		l,	
35	make (standard): MANN & HUMMEL		×	-

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Exhaust Regulations Fuel-consumption optimized;

11. Fuel system

No.	Description	Index	Value	Unit
1	Fuel pressure at engine fuel feed connection, min.	1,	-0.1	bar
1	(when engine is starting)	l L	-0.1	Dar
2	Fuel pressure at engine fuel feed connection, max.		1.5	bar
2	(when engine is starting)		1.5	Dai
57	Fuel pressure at engine fuel feed connection, min.		-0.3	bar
5/	(when engine is running)	L	-0.5	Dai
65	Fuel pressure at engine fuel feed connection, max.	- I.	0.5	bar
03	(when engine is running)			Dai
37	Fuel supply flow, max.	Α	27	liter/min
4	Fuel pressure before injection pump, from	R	7.0	bar
т	(high-pressure pump)	IN.	7.0	Dai
5	Fuel pressure before injection pump, to	R	9.0	bar
,	(high-pressure pump)	IX.	5.0	Dai
6	Fuel pressure before injection pump, min.	- I.	5.0	bar
0	(high-pressure pump)		5.0	Dai
7	Fuel pressure before injection pump	- I.	1.5	bar
,	with engine not running, max. (high-pressure pump)	L		Dai
8	Fuel return flow, max.	Α	7.0	liter/min
10	Fuel pressure at return connection on engine, max.	L	0.5	bar
3235	Fuel fine filter (secondary filter):	Α	1	
3233	Number of units	^	1	
3236	Fuel fine filter (secondary filter):	Α	2	
3230	Number of elements per unit	^	2	
18	Fuel fine filter (main circuit): number of units	Α	1	-
19	Fuel fine filter (main circuit): number of elements per unit	Α	2	-
21	Fuel fine filter (main circuit): pressure differential, max.	L	2.0	bar
3442	Fuel fine filter (intermediate filter):	- [.	4.0	bar
J-1-72	Pressure differential, max.		7.0	Dai

12. General operating data

No.	Description	Index	Value	Unit
22	Coolant preheating, preheating temperature, min.	L	32	°C
28	Breakaway torque (without driven machinery)	R	2600	Nm
20	coolant temperature +5°C	N	2000	INIII
30	Breakaway torque (without driven machinery)	R	2200	Nm
30	coolant temperature +40°C	N	2200	INIII
29	Cranking torque at firing speed (without driven machinery)	R	1400	Nm
23	coolant temperature +5°C	N	1400	INIII
31	Cranking torque at firing speed (without driven machinery)	R	1100	Nm
31	coolant temperature +40°C	N	1100	INIII
37	High idling speed, max. (static)	L	1613	rpm
38	Limit speed for overspeed alarm / emergency shutdown	L	1950	rpm

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A Design value
Value required for the design of an external system (plant)

R Guideline value
Typical average value as information – only suitable for design purposes to a limited extent
L Limit value
A value representing the lower limit/minimum value or upper limit/maximum value that may not be exceeded. No suitable for design purposes



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39	Limit speed for overspeed alarm	L	1950	rpm
42	Firing speed, from	R	80	rpm
43	Firing speed, to	R	120	rpm
11	Engine coolant temperature before starting full-load operation, recommended	R	60	°C
44	min.	K	60	C
3515	Minimum continuous load (operation > 10h)	R	30	kW/cyl
50	Engine mass moment of inertia	R	24.6	kgm²
30	(without flywheel)	K	24.0	Kgiii
52	Standard flywheel mass moment of inertia	R	10.2	kgm²
Г1	Engine mass moment of inertia	D	34.8	lram²
51	(with standard flywheel)	R	34.6	kgm²
69	Speed droop (with electronic governor) adjustable, from	R	0	%
70	Speed droop (with electronic governor) adjustable, to	R	7	%
95	Number of starter ring-gear teeth on engine flywheel		182	-

13. Starting (electric)

13. Ota	iting (electric)			
No.	Description	Index	Value	Unit
2309	Manufacturer		Delco	-
2310	Number of starter		2	-
2312	Starter electrically redundant		-	-
2313	Rated power per starter	R	9	kW
2314	Starter, rated voltage	R	24	VDC
2315	Rated short-circuit current per starter	L	1900	A
2316	Power consumption per starter	R	580	А
	(at an engine speed of 100 rpm)			
2317	Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
2318	Manufacturer		Bosch	-
2319	Number of starter		2	-
2320	Starter electrically redundant		-	-
2321	Rated power per starter	R	11.3	kW
2322	Starter, rated voltage	R	24	VDC
2323	Rated short-circuit current per starter	L	2190	A
2324	Power consumption per starter	Ь	750	
2324	(at an engine speed of 100 rpm)	R		A
2325	Internal resistance of power supply + line resistance per starter	А	0.0047	Ω
2326	Manufacturer		Prestolite	-
2327	Number of starter		1	-
2328	Starter electrically redundant		-	-
2329	Rated power per starter	R	15	kW
2330	Starter, rated voltage	R	24	VDC
2331	Rated short-circuit current per starter	L	3000	А
2332	Power consumption per starter	Б	1400	
2332	(at an engine speed of 100 rpm)	R	1400	A
2333	Internal resistance of power supply + line resistance per starter	А	0.0045	Ω
2334	Manufacturer		Prestolite	-
2335	Number of starter		2	-
2336	Starter electrically redundant		Х	-

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2337	Rated power per starter	R	15	kW
2338	Starter, rated voltage	R	24	VDC
2339	Rated short-circuit current per starter	L	3000	A
2240	Power consumption per starter	D	1400	_
2340	(at an engine speed of 100 rpm)	R	1400	A
2341	Internal resistance of power supply + line resistance per starter	Α	0.0045	Ω
2347	Generally valid data for starter		X	-
2342	Rated starting-attempt Duration (at +20°C ambient temperature with battery	R	5	S
22.42	Interval between starts		20	
2343	(at rated starting-attempt duration), min.	L	20	S
2345	Maximum acceptable starting-attempt duration	L	15	S
2344	Interval between starts	0	60	
2344	(when starting-attempt duration > rated starting-attempt duration)	R	80	S
2346	Starting attempts within 30 minutes		6	
2346	(at +20°C ambient temperature with battery full), max.	L	Ь	-
2565	Disengagement of starter pinion at engine Speed		400	
3565	Note: Exceeding the guideline value of the disengagement speed will reduce	R	400	rpm
3566	Disengagement of starter pinion at engine speed, max.	L	500	rpm

15. Starting (pneumatic/oil pressure starter)

No.	Description	Index	Value	Unit
36	Pneumatic starter: make TDI		Х	-
5	Starting air pressure before starter motor, min.	R	8	bar
6	Starting air pressure before starter motor, max.	R	9	bar
7	Starting air pressure before starter motor, min.	L	8	bar
8	Starting air pressure before starter motor, max.	L	9	bar
18	Start attempt duration (engine preheated)	R	3	S
19	Start attempt duration (engine not preheated)	R	5	S
	Air consumption/start attempt			
111	(engine preheated)	_	1.4	m³n
114	Engine without generator	R		
	Control with engine controller			
110	Air consumption with external control	ь	0.5	3
116	for air-starter (per second	R	0.5	m³n
20	Starting air tank for 3 start attempts	_	N	liter
29	(max. 40 bar) (engine not preheated)	R		
30	Starting air tank for 3 start attempts		N.	liter
30	(max. 30 bar) (engine not preheated)	R	N	
31	Starting air tank for 6 start attempts	2	N	Da
31	(max. 40 bar) (engine not preheated)	R	N	liter
32	Starting air tank for 6 start attempts		N	lia
32	(max. 30 bar) (engine not preheated)	R	IN .	liter
22	Starting air tank for 10 start attempts	_	N	Pa
33	(max. 40 bar) (engine not preheated)	R	N	liter
24	Starting air tank for 10 start attempts	В	N	lika
34	(max. 30 bar) (engine not preheated)	R	N	liter
	•		8	•

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 Non-applicable
The module is not valid for this product type
 N Value not named
The value has not yet been named or will not be named Adequate verification not yet available (tolerance +/-10%)
Adequate verification not yet available (tolerance +/-5%)



Name 20V4000G44F

Application Group 3B

Dataset Ref. 25°C/45°C Speed [rpm] 1500 Nominal power [kW] 2807 Nominal power [bhp] 3764 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

103	Starting oil pressure before starter motor, max.	R	207	bar
105	Starting oil pressure before starter motor, max.	L	207	bar
106	Start attempt duration (engine preheated)	R	2.5	S
108	Start attempt duration, max.	L	15	s

16. Inclinations - standard oil system (ref.: waterline)

No.	Description	Index	Value	Unit
	Longitudinal inclination, continuous max.			
15	driving end down	L	5	degrees (°)
	(Option: max. operating inclinations)			
	Longitudinal inclination, continuous max.			
17	driving end up	L	5	degrees (°)
	(Option: max. operating inclinations)			
19	Transverse inclination, continuous max.		10	d = === (%)
	(Option: max. operating inclinations)	L	10	degrees (°)

18. Capacities

No.	Description	Index	Value	Unit
1	Engine coolant capacity (without cooling equipment)	R	260	liter
10	Intercooler coolant capacity	R	50	liter
11	On-engine fuel capacity	R	9	liter
	Engine oil capacity, initial filling			
14	(standard oil system)	R	390	liter
	(Option: max. operating inclinations)			
	Oil change quantity, max.			
20	(standard oil system)	R	340	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark min.			
28	(standard oil system)	L	270	liter
	(Option: max. operating inclinations)			
	Oil pan capacity, dipstick mark max.			
29	(standard oil system)	L	315	liter
	(Option: max. operating inclinations)			

19. Masses / dimensions

No.	Description	Index	Value	Unit
1	Engine dry mass (standard scope of supply)	R	9650	kg
)	Engine dry mass (with engine-mounted	<u> </u>	10050	kg
	standard accessories incl. coupling)	K		
4	Engine length (standard scope of supply)	R	3479	mm
5	Engine width (standard scope of supply)	R	1700	mm
6	Engine height (standard scope of supply)	R	2252	mm

BL Reference value: fuel stop power Maximum engine power that cannot be run continuously on some applications (stabilization reserve)
DL Reference value: continuous power Engine power that can be run continuously under standard conditions

Actual value must be greater than specified value
 Actual value must be less than specified value

X Applicable
The module is valid for this product type
Non-applicable
The module is not valid for this product type
N Value not named
The value has not yet been named or will not be named

Adequate verification not yet available (tolerance +/-10%)
Adequate verification not yet available (tolerance +/-5%)



Name 20V4000G44F **Application Group** 3B

Dataset Ref. 25°C/45°C Speed [rpm] 1500 Nominal power [kW] 2807 Nominal power [bhp] 3764 Frequency [Hz] 50

Exhaust Regulations Fuel-consumption optimized;

21. Exhaust emissions

No.	Description	Index	Value	Unit
1972	Emissions data sheet:		EDS40001044	
	Fuel-consumption optimized		ED340001044	-

22. Acoustics

No.	Description	Index	Value	Unit
101	Exhaust noise, unsilenced - CP			
	(free-field sound-pressure level Lp, 1m distance,	R	120	dB(A)
	ISO 6798, +3dB(A) tolerance)			
201	Exhaust noise, unsilenced - CP	R	132	dB(A)
	(sound power level LW, ISO 6798, +3dB(A) tolerance)	IX.		
	Exhaust noise, unsilenced - CP		737222e	-
103	(free-field sound-pressure level Lp, 1m distance,	R		
	ISO 6798)	K		
	Spectrum No.			
	Engine surface noise with attenuated	R	111	dB(A)
109	intake noise (filter) - CP			
	(free-field sound-pressure level Lp, 1m distance,			
	ISO 6798, +2dB(A) tolerance)			
209	Engine surface noise with attenuated	R	130	dB(A)
	intake noise (filter) - CP			
	(sound power level LW, ISO 6798, +2dB(A) tolerance)			
111	Engine surface noise with attenuated			
	intake noise (filter) - CP	R	737196e	-
	(free-field sound-pressure level Lp, 1m distance,			
	ISO 6798) Spectrum No.			
125	Structure borne noise at engine mounting brackets		737209e	-
	in vertical direction above resilient engine mounts - CP	R		
	Spectrum No.			