

Name 16V2000G36F

**Application Group** 3B

Dataset Ref. 25°C/-; Air charge air cooling Speed [rpm] 1500 Nominal power [kW] 1000 Nominal power [bhp] 1341 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		-	°C
8	Barometric pressure		1000	mbar
9	Site altitude above sea level		100	m

0. Data-relevant engine design configuration

	a			
No.	Description	Index	Value	Unit
43	Amendment history drawing No.		N	-
44	Amendment history drawing No.		N	
44	(cont.)		11	-
8	Engine rated speed switchable			
	(1500/1800 rpm)		-	-
13	Engine without sequential turbocharging		v	
13	(turbochargers without cut-in/cut-out control)		<u> </u> ^	-
31	Engine with air-cooled charge air		X	-
C1	Engine with water/charge air cooling			
61	(LT, on-engine)			-

#### 1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	Α	1500	rpm
4	Continuous power ISO 3046 (10% overload capability)	^	1000	1344
4	(design power DIN 6280, ISO 8528)	A	1000	kW
5	Fuel stop power ISO 3046	Α	1100	kW
0	Mean effective pressure (MEP)		22.4	la a u
٥	(Continuous power ISO 3046)		22.4	bar
0	Mean effective pressure (MEP)		24.6	la a u
3	(Fuel stop power ISO 3046)		24.0	bar

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
46	Individual power calculation (ESCM)		_	
40	required for maximum power		^	-
1	Intake air depression (new filter)	Α	15	mbar
2	Intake air depression, max.	L	40	mbar
3	Exhaust back pressure	Α	30	mbar
4	Exhaust back pressure, max.	L	50	mbar
5	Fuel temperature at fuel feed connection	R	25	°C
0	Fuel temperature at fuel feed connection, max.			°C
9	(w/o power reduction)	L	-	C
10	Fuel temperature at fuel feed connection, max.	L	65	°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 <a></a> Actual value must be less than specified value

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

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149	Max. ambient temperature in direct vicinity of vibration damper	L	-	°C
18	Fuel temperature at fuel feed connection, min.	L	N	°C

3. Consumption

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP	R	192	g/kWh
17	(+ 5 %; EN 590; 42.8 MJ/kg)	K	192	g/kwn
18	Specific fuel consumption (be) - 75 % CP		192	- /I->A/I-
10	(+ 5 %; EN 590; 42.8 MJ/kg)	R	192	g/kWh
19	Specific fuel consumption (be) - 50 % CP	R	199	g/kWh
19	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	199	g/KVVII
20	Specific fuel consumption (be) - 25 % CP	R	219	a /ls\A/b
20	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	219	g/kWh
21	Specific fuel consumption (be) - FSP	R	193	g/kWh
21	(+ 5 %; EN 590; 42.8 MJ/kg)	'n	193	g/KVVII
56	Specific fuel consumption (be) - 100 % FSP	R		g/kWh
5	(+ 5 %; EN 590; 42.8 MJ/kg)	n		g/KVVII
57	Specific fuel consumption (be) - 75 % FSP	R	-	g/kWh
37	(+ 5 %; EN 590; 42.8 MJ/kg)	n		
58	Specific fuel consumption (be) - 50 % FSP	R	-	g/kWh
50	(+ 5 %; EN 590; 42.8 MJ/kg)	K		g/ KVVII
59	Specific fuel consumption (be) - 25 % FSP	R	-	g/kWh
33	(+ 5 %; EN 590; 42.8 MJ/kg)	n		g/KVVII
73	No-load fuel consumption	R	14	kg/h
	Lube oil consumption after 100 h of operation			
	(B = fuel consumption per hour)		0.35	
92	Guideline value does not apply for the design	R		% 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.		0.8	% of B
02	(B = fuel consumption per hour)	L	0.8	% Of B

4. Model-related data (basic design)

No.	Description	Index	Value	Unit
3	Engine with exhaust turbocharger (ETC) and intercooler	IIIucx	X	-
4	Exhaust piping, non-cooled		х	-
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		90	degrees (°)
10	Bore		135	mm
11	Stroke		156	mm
12	Displacement, cylinder		2.233	liter

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

Limit value

A value representing the lower limit/minimum value or upper limit/maximum value that may not be exceeded. Not suitable for design purposes



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13	Displacement, total		35.7	liter
14	Compression ratio		17.5	-
40	Cylinder heads: single-cylinder		Х	-
41	Cylinder liners: wet, replaceable		Х	-
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		2	-
16	Number of L.P. turbochargers		-	-
17	Number of H.P. turbochargers		-	-
18	Number of intercoolers		1	-
19	Number of L.P. intercoolers		-	-
20	Number of H.P. intercoolers		-	-
28	Standard flywheel housing flange (engine main PTO)		0	SAE
50	Static bending moment at standard		N	kNm
30	flywheel housing flange, max.	-	IN	KINIII
51	Dynamic bending moment at standard		N	Libling
21	flywheel housing flange, max.	L	IN	kNm
43	Flywheel interface (DISC)		18"	-
46	Engine mass diagram, drawing No.		N	-
47	Engine mass diagram, drawing No. (cont.)		N	-

5. Combustion air / exhaust gas

No.	Description	Index	Value	Unit
33	Charge-air flow through external air-to-air intercooler	А	N	m³/s
34	Charge-air temperature before external	А	205	°C
J 1	air-to-air intercooler	^	203	C
35	Charge-air temperature after external	А	60	°C
33	air-to-air intercooler	^	00	
36	Charge-air temperature after external		75	°C
30	air-to-air intercooler, max.	L	73	C
37	Charge-air temperature after external		10	°C
37	air-to-air intercooler, min.	L	10	C
39	Pressure differential in external		130	mbar
33	air-to-air intercooler, max.	L	130	mbar
8	Charge-air pressure before cylinder - CP	R	3.2	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.5	bar abs
9	Combustion air volume flow - CP	R	1.17	m³/s
10	Combustion air volume flow - FSP	R	1.27	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	3.12	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	3.45	m³/s
17	Exhaust temperature after engine - CP	R	530	°C
18	Exhaust temperature after engine - FSP	R	545	°C
58	Exhaust temperature after engine (turbocharger), max.	L	700	°C

6. Heat dissipation

No.	Description	Index	Value	Unit	l
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Applicable
 The module is valid for this product type
 Non-applicable
 The module is not valid for this product type
 Would be the module is not valid for this product type
 Wolle not named
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**Exhaust Regulations** Fuel-consumption optimized;

60	Heat dissipated by engine coolant - CP	R	395	kW
00	(high-temperature circuit)	ĸ	353	KVV
61	Heat dissipated by engine coolant - CP	D		kW
01	(low-temperature circuit)	R		KVV
62	Heat dissipated by engine coolant - FSP	D	425	kW
02	(high-temperature circuit)	R	423	KVV
62	Heat dissipated by engine coolant - FSP	В		kW
63	(low-temperature circuit)	R		KVV
26	Charge-air heat dissipation - CP	R	190	kW
27	Charge-air heat dissipation - FSP	R	235	kW
31	Heat dissipated by return fuel flow - CP	R	3.5	kW
32	Heat dissipated by return fuel flow - FSP	R	3.5	kW
33	Radiation and convection heat, engine - CP	R	40	kW
34	Radiation and convection heat, engine - FSP	R	40	kW

7. Coolant system (high-temperature circuit)

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No.	Description	Index	Value	Unit
17	Coolant temperature		100	°C
17	(at engine outlet to cooling equipment)	A	100	C
20	Coolant temperature after engine, limit 1	L	102	°C
21	Coolant temperature after engine, limit 2	L	105	°C
25	Coolant antifreeze content, max.	L	50	%
30	Cooling equipment: coolant flow rate	А	41.6	m³/h
35	Coolant pump: inlet pressure, min.	L	0.4	bar
36	Coolant pump: inlet pressure, max.	L	1.5	bar
41	Pressure loss in off-engine cooling system, max.	L	1.0	bar
72	Pressure loss in off-engine cooling system, min.	L	0.3	bar
47	Breather valve (expansion tank)	6	1.0	hau
47	opening pressure (excess pressure)	R	1.0	bar
54	Cooling equipment: height above engine, max.	L	20	m
50	Thermostat, starts to open	R	79	°C

8. Coolant system (low-temperature circuit)

No.	Description	Index	Value	Unit
0	Coolant temperature before intercooler			°C
9	(at engine inlet from cooling equipment)	A	-	°C
13	Coolant antifreeze content, max.	L	-	%
17	Charge-air temperature after intercooler, max.	L	-	°C
76	Temperature differential between intake air and	Δ.		IV.
76	charge-air coolant before intercooler	A	-	K
20	Cooling equipment: coolant flow rate	Α	-	m³/h
24	Coolant pump: inlet pressure, min.	L	-	bar
25	Coolant pump: inlet pressure, max.	L	-	bar
29	Pressure loss in off-engine cooling system, max.	L	-	bar
62	Pressure loss in off-engine cooling system, min.	L	-	bar
43	Cooling equipment: height above engine, max.	L	-	m

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DL Reference value: continuous power Engine power that can be run continuously under standard conditions

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36	Breather valve (expansion tank) opening pressure (excess pressure)	R	-	bar
39	Thermostat, starts to open	R	-	°C

10. Lube oil system

No.	Description	Index	Value	Unit
1	Lube oil operating temp. before engine, from	R	75	°C
2	Lube oil operating temp. before engine, to	R	100	°C
5	Lube oil temperature before engine, limit 1	L	103	°C
6	Lube oil temperature before engine, limit 2	L	105	°C
8	Lube oil operating press. bef. engine, from	R	6.2	bar
9	Lube oil operating press. bef. engine, to	R	8.8	bar
10	Lube oil pressure before engine, alarm	L	4.5	bar
11	Lube oil pressure before engine, shutdown	L	4.0	bar
19	Lube oil fine filter (main circuit):		1	
19	number of units			-
20	Lube oil fine filter (main circuit):		2	
20	number of elements per unit		3	-
32	Lube oil fine filter (main circuit):		1.0	la a u
32	pressure differential, max.	L	1.0	bar

11. Fuel system

No.	Description	Index	Value	Unit
3307	Fuel pressure at fuel feed connection, min.	1,	0.5	bar abs
3307	(when engine is starting), absolute pressure	L	0.3	Dar abs
3309	Fuel pressure at fuel feed connection, max.		1.5	la a u a la a
3303	(when engine is starting), absolute pressure	L	1.5	bar abs
3308	Fuel pressure at fuel feed connection, min.		0.5	bar abs
3308	(when engine is running), absolute pressure	L	0.5	Dai abs
3310	Fuel pressure at fuel feed connection, max. (permanent), absolute pressure	L	1.0	bar abs
3311	Fuel pressure at fuel feed connection, specification		XZ54407000001	-
4211	Max. fuel supply volume	Α	25	liter/min
4211	Normal mode	A	23	inter/iiiiii
4212	Max. fuel supply volume	Α	25	liter/min
4212	Failure mode	A	23	inter/min
77	Max. fuel return volume	R	25	liter/min
, ,	Normal mode	I.	23	
4184	Max. fuel return volume	R	25	liter/min
4104	Failure mode	K	23	inter/min
10	Fuel pressure at return connection on engine, max.	L	0.5	bar
13	Fuel temperature differential before/after engine, max.	L	15	K
18	Fuel fine filter (main circuit): number of units	Α	1	-
19	Fuel fine filter (main circuit): number of elements per unit	Α	4	-
20	Fuel fine filter (main circuit): particle retention	Α	0.005	mm
21	Fuel fine filter (main circuit): pressure differential, max.	L	1.0	bar



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**Exhaust Regulations** Fuel-consumption optimized;

12. General operating data

12. General operating data						
No.	Description	Index	Value	Unit		
1	Cold start capability: air temperature	0	0	°C		
1	(w/o starting aid, w/o preheating) - (case A)	R	O	C		
22	Coolant preheating, preheating temperature, min.	L	32	°C		
3506	Coolant preheating, preheating temperature, max.	L	55	°C		
28	Breakaway torque (without driven machinery)	В		Nm		
20	coolant temperature +5°C	R	-	INIII		
30	Breakaway torque (without driven machinery)	0		Nice		
30	coolant temperature +40°C	R	-	Nm		
20	Cranking torque at firing speed (without driven machinery)	_		Nice		
29	coolant temperature +5°C	R	-	Nm		
24	Cranking torque at firing speed (without driven machinery)	_				
31	coolant temperature +40°C	R	-	Nm		
0.0	Starting is blocked if the engine coolant temperature is		30			
96	below		-20	°C		
37	High idling speed, max. (static)	L	1660	rpm		
38	Limit speed for overspeed alarm / emergency shutdown	L	1800	rpm		
42	Firing speed, from	R	100	rpm		
43	Firing speed, to	R	120	rpm		
44	Engine coolant temperature before starting full-load operation, recommended	2	40	٥.		
44	min.	R	40	°C		
48	Minimum continuous load	R	20	%		
49	Extended low or no-load operation possible		х			
49	(consultation required)		^	-		
50	Engine mass moment of inertia	_	3.4	1		
50	(without flywheel)	R	3.4	kgm²		
52	Standard flywheel mass moment of inertia	R	2.99	kgm²		
1981	Block bending moment - SAE 0	R	N	kNm		
69	Speed droop (with electronic governor) adjustable, from	R	0	%		
70	Speed droop (with electronic governor) adjustable, to	R	5	%		

#### 13. Starting (electric)

No.	Description	Index	Value	Unit
2309	Manufacturer		PRESTOLITE	-
2310	Number of starter		1	-
2312	Starter electrically redundant		-	-
2313	Rated power per starter	R	7.5	kW
2314	Starter, rated voltage	R	24	VDC
2315	Rated short-circuit current per starter	L	1730	Α
2316	Power consumption per starter		720	А
2310	(at an engine speed of 100 rpm)	R		
3000	Power consumption per starter			
3000	(at an engine speed of 100 rpm, SAE0)	R	-	Α
3002	Power consumption per starter	_		
3002	(at an engine speed of 100 rpm, SAE1)	R	<del>-</del>	А

<sup>&</sup>gt; Actual value must be greater than specified value < Actual value must be less than specified value



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2317	Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
2318	Manufacturer	А	PRESTOLITE	12
			PRESTOLITE	-
	Number of starter		2	-
2320	Starter electrically redundant		X	-
2321	Rated power per starter	R	7.5	kW
2322	Starter, rated voltage	R	24	VDC
2323	Rated short-circuit current per starter	L	1730	Α
2324	Power consumption per starter	0	720	٨
2324	(at an engine speed of 100 rpm)	R	720	Α
3001	Power consumption per starter	В		^
3001	(at an engine speed of 100 rpm, SAE0)	R		А
3003	Power consumption per starter	R		۸
3003	(at an engine speed of 100 rpm, SAE1)	K	-	A
2325	Internal resistance of power supply + line resistance per starter	Α	0.008	Ω
2347	Generally valid data for starter		X	-
2342	Rated starting-attempt Duration (at +20°C ambient temperature with battery	R	3	S
2343	Interval between starts		5	
2343	(at rated starting-attempt duration), min.	L	5	S
2345	Maximum acceptable starting-attempt duration	L	15	S
2344	Interval between starts		60	
2344	(when starting-attempt duration > rated starting-attempt duration)	R	60	S
2246	Starting attempts within 30 minutes			
2346	(at +20°C ambient temperature with battery full), max.	L	6	-

15. Starting (pneumatic/oil pressure starter)

No.	Description	Index	Value	Unit
36	Pneumatic starter: make TDI		X	-
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
20	Start attempt duration, max.	L	-	S
	Air consumption/start attempt		1.1	m³n
114	(engine preheated)			
114	Engine without generator	R		
	Control with engine controller			
	Air consumption/start attempt			
115	(engine not preheated)		4.0	m³n
115	Engine without generator	R	1.2	
	Control with engine controller			
110	Air consumption with external control	_	0.6	3
116	for air-starter (per second	R	0.6	m³n
22	Starting air tank for 3 start attempts			
23	(max. 40 bar) (engine preheated)	R		liter

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24	Starting air tank for 3 start attempts	R	-	liter
- '	(max. 30 bar) (engine preheated)	IX.		litter
25	Starting air tank for 6 start attempts	R	-	liter
23	(max. 40 bar) (engine preheated)	IN.		iitei
26	Starting air tank for 6 start attempts	R		liter
20	(max. 30 bar) (engine preheated)	N.		iitei
27	Starting air tank for 10 start attempts	R		liter
27	(max. 40 bar) (engine preheated)	ĸ	-	
28	Starting air tank for 10 start attempts	R		liter
20	(max. 30 bar) (engine preheated)	N.		iitei
29	Starting air tank for 3 start attempts	R	N	liter
23	(max. 40 bar) (engine not preheated)	ĸ		
30	Starting air tank for 3 start attempts	R	Ν	liter
30	(max. 30 bar) (engine not preheated)	ĸ		
31	Starting air tank for 6 start attempts	R	N	liter
31	(max. 40 bar) (engine not preheated)	N.		
32	Starting air tank for 6 start attempts	R	N	1
32	(max. 30 bar) (engine not preheated)	ĸ	IN .	liter
33	Starting air tank for 10 start attempts	R	N	litor
33	(max. 40 bar) (engine not preheated)	K	N	liter
34	Starting air tank for 10 start attempts		N	lia
34	(max. 30 bar) (engine not preheated)	R	IN .	liter

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	degrees (°)
19	(Option: max. operating inclinations)	L	10	degrees ( )

#### 18. Capacities

No.	Description	Index	Value	Unit
1	Engine coolant capacity (without cooling equipment)	R	70	liter
10	Intercooler coolant capacity	R	-	liter
11	On-engine fuel capacity	R	6	liter
	Engine oil capacity, initial filling			
14	(standard oil system)	R	114	liter
	(Option: max. operating inclinations)			
	Oil change quantity, max.			
20	(standard oil system)	R	102	liter
	(Option: max. operating inclinations)			

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2024	Oil pan capacity, dipstick mark min. (standard oil system)	R	88	liter
2025	Oil pan capacity, dipstick mark max.	R	94	liter
	(standard oil system)	R	J-	litei

#### 19. Masses / dimensions

No.	Description	Index	Value	Unit
9	Engine mass, dry			
	(basic engine configuration acc. to	R	3100	kg
	scope of supply specification)			
10	Engine mass, wet			
	(basic engine configuration acc. to	R	3275	kg
	scope of supply specification)			

#### 20. Fan / fan cooler

No.	Description	Index	Value	Unit
1	Standard design		-	-
3	Fan, pusher-type		X	-
9	Fan drive: mechanical via V-belt		X	-
13	Fan: speed	R	N	rpm

#### 21. Exhaust emissions

No.	Description	Index	Value	Unit
2005	Emissions data sheet:			
2003	NEA Singapore for ORDE			-
1959	Emissions data sheet:			
1939	US EPA Tier 4i			-
2052	Emissions data sheet:			
2032	MoEF India / CPCB Stage II		-	-

#### 22. Acoustics

22. A	oustics			
No.	Description	Index	Value	Unit
101	Exhaust noise, unsilenced - CP			
	(free-field sound-pressure level Lp, 1m distance,	R	114	dB(A)
	ISO 6798, +3dB(A) tolerance)			
201	Exhaust noise, unsilenced - CP	ь	126	4D(A)
	(sound power level LW, ISO 6798, +3dB(A) tolerance)	R		dB(A)
103	Exhaust noise, unsilenced - CP			
	(free-field sound-pressure level Lp, 1m distance,	р	736748e	
	ISO 6798)	R		-
	Spectrum No.			

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Name 16V2000G36F

**Application Group** 3B

Dataset Ref. 25°C/-; Air charge air cooling Speed [rpm] 1500 1000 Nominal power [kW] Nominal power [bhp] 1341 Frequency [Hz] 50

**Exhaust Regulations** Fuel-consumption optimized;

109	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	102	dB(A)
209	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798, +2dB(A) tolerance)	R	120	dB(A)
111	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	736728e	-

23. TBO and load profile (case A)

	oo and load profile (case A)			
No.	Description	Index	Value	Unit
1	TBO (Time between Overhaul)		18000	h
	(related to standard load profile (Pn,tn))	L L	18000	li li
22	P1 (percent load related to CP)	R	110	%
3	t1 (percentage of operating time)	R	1	%
24	P2 (percent load related to CP)	R	100	%
5	t2 (percentage of operating time)	R	9	%
26	P3 (percent load related to CP)	R	70	%
7	t3 (percentage of operating time)	R	90	%
28	P4 (percent load related to CP)	R	-	%
9	t4 (percentage of operating time)	R	-	%
30	P5 (percent load related to CP)	R	-	%
18	t5 (percentage of operating time)	R	-	%
11	Mean utilization rate (percentage of rated power)	R	<75	%
12	Number of load changes/hour, type I		2	
12	(< 10% to >90% load)	R	<sup>2</sup>	-
13	Number of load changes/hour, type II		2	
	(< 10% to between 70% and 90% load)	R	2	-
15	Maintenance schedule No.		N	-
16	Maintenance schedule No. (cont.)		N	-