

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

NEA Singapore for ORDE; EPA Nonroad T2 Compliant; **Exhaust Regulations**

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

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No.	Description	Index	Value	Unit
43	Amendment history drawing No.		N	-
44	Amendment history drawing No.		N	
44	(cont.)		11	-
0	Engine rated speed switchable			
٥	(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		Х	-
61	Engine with water/charge air cooling			
	(LT, on-engine)			-

1. Power-related data

No.	Description	Index	Value	Unit
1	Engine rated speed	Α	1500	rpm
1	Continuous power ISO 3046 (10% overload capability)		1000	134/
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
8	(Continuous power ISO 3046)		22.4	bar
9	Mean effective pressure (MEP)		24.6	la a u
	(Fuel stop power ISO 3046)		24.6	bar

2. General Conditions (for maximum power)

No.	Description	Index	Value	Unit
46	Individual power calculation (ESCM)		V	
46	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	А	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

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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	201	a/la/A/b
17	(+ 5 %; EN 590; 42.8 MJ/kg)	, and the second	201	g/kWh
18	Specific fuel consumption (be) - 75 % CP		203	- /LAA/In
10	(+ 5 %; EN 590; 42.8 MJ/kg)	R	203	g/kWh
19	Specific fuel consumption (be) - 50 % CP	R	210	g/kWh
19	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	210	g/KVVII
20	Specific fuel consumption (be) - 25 % CP	R	236	a/la/A/b
20	(+ 5 %; EN 590; 42.8 MJ/kg)	ĸ	230	g/kWh
21	Specific fuel consumption (be) - FSP	R	196	g/kWh
21	(+ 5 %; EN 590; 42.8 MJ/kg)	n,	196	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 n		
58	Specific fuel consumption (be) - 50 % FSP	R	-	g/kWh
50	(+ 5 %; EN 590; 42.8 MJ/kg)	K		
59	Specific fuel consumption (be) - 25 % FSP	R	-	g/kWh
33	(+ 5 %; EN 590; 42.8 MJ/kg)	n 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)			
92	Guideline value does not apply for the design	R	0.35	% 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	0/ of D
62	(B = fuel consumption per hour)	L	0.8	% of B

4. Model-related data (basic design)

	, , , , , , , , , , , , , , , , , , , ,	1		
No.	Description	Index	Value	Unit
3	Engine with exhaust turbocharger (ETC) and intercooler		X	-
4	Exhaust piping, non-cooled		X	-
33	Working method: four-cycle, diesel, single-acting		X	-
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

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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.	L	IN .	KINITI
51	Dynamic bending moment at standard		N	Libling
31	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	220	°C
34	air-to-air intercooler	^	220	C
35	Charge-air temperature after external	А	50	°C
33	air-to-air intercooler	^	50	C
36	Charge-air temperature after external	e-air temperature after external	65	°C
30	air-to-air intercooler, max.	L	03	C
37	Charge-air temperature after external		10	°C
37	air-to-air intercooler, min.	L		C
39	Pressure differential in external		130	mbar
33	air-to-air intercooler, max.	L	130	IIIDai
8	Charge-air pressure before cylinder - CP	R	3.4	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.5	bar abs
9	Combustion air volume flow - CP	R	1.24	m³/s
10	Combustion air volume flow - FSP	R	1.27	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	3.37	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	3.43	m³/s
17	Exhaust temperature after engine - CP	R	520	°C
18	Exhaust temperature after engine - FSP	R	535	°C
58	Exhaust temperature after engine (turbocharger), max.	L	700	°C

6. Heat dissipation

No.	Description	Index	Value	Unit	l
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60	Heat dissipated by engine coolant - CP	R	375	kW
00	(high-temperature circuit)	IX.	3,3	KVV
61	Heat dissipated by engine coolant - CP	R		kW
01	(low-temperature circuit)	n		KVV
62	Heat dissipated by engine coolant - FSP	R	400	kW
02	(high-temperature circuit)	l K	400 K	KVV
63	Heat dissipated by engine coolant - FSP	р		kW
03	(low-temperature circuit)	R	_	KVV
26	Charge-air heat dissipation - CP	R	250	kW
27	Charge-air heat dissipation - FSP	R	250	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)	А	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	Α	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)	0	1.0	la a u	
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	^		20
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	٨		V
70	charge-air coolant before intercooler	A	-	K
20	Cooling equipment: coolant flow rate	А	-	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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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	
13	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.		0.5	har abs
3307	(when engine is starting), absolute pressure	L	0.5	bar abs
3309	Fuel pressure at fuel feed connection, max.		1.5	hau aha
3309	(when engine is starting), absolute pressure	L	1.3	bar abs
3308	Fuel pressure at fuel feed connection, min.		0.5	bar abs
3306	(when engine is running), absolute pressure	L	0.5	Dar 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/inin
4212	Max. fuel supply volume	Α	25	liter/min
4212	Failure mode	А	25	inter/min
77	Max. fuel return volume	R	25	liter/min
//	Normal mode	ĸ	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	А	1	-
19	Fuel fine filter (main circuit): number of elements per unit	Α	4	-
20	Fuel fine filter (main circuit): particle retention	А	0.005	mm
21	Fuel fine filter (main circuit): pressure differential, max.	L	1.0	bar



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12. General operating data

	eral operating data			
No.	Description	Index	Value	Unit
1	Cold start capability: air temperature	R	0	°c
1	(w/o starting aid, w/o preheating) - (case A)	K	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)	2		Nime
20	coolant temperature +5°C	R	-	Nm
20	Breakaway torque (without driven machinery)	_		
30	coolant temperature +40°C	R	_	Nm
20	Cranking torque at firing speed (without driven machinery)	_		
29	coolant temperature +5°C	R	-	Nm
	Cranking torque at firing speed (without driven machinery)	l_		
31	coolant temperature +40°C	R	-	Nm
	Starting is blocked if the engine coolant temperature is			
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
4.4	Engine coolant temperature before starting full-load operation, recommended	_	40	
44	min.	R	40	°C
48	Minimum continuous load	R	20	%
40	Extended low or no-load operation possible		,	
49	(consultation required)		X	-
	Engine mass moment of inertia	_		
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	0	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	-	A
3002	Power consumption per starter			
3002	(at an engine speed of 100 rpm, SAE1)	R	-	A

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2317	Internal resistance of power supply + line resistance per starter	Ι.	0.008	
		Α		Ω
2318	Manufacturer		PRESTOLITE	-
2319	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
2224	Power consumption per starter	0	720	_
2324	(at an engine speed of 100 rpm)	R	720	Α
3001	Power consumption per starter	_		^
3001	(at an engine speed of 100 rpm, SAE0)	R		A
3003	Power consumption per starter	_		_
3003	(at an engine speed of 100 rpm, SAE1)	R		Α
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
2242	Interval between starts	1.	_	
2343	(at rated starting-attempt duration), min.	L	5	S
2345	Maximum acceptable starting-attempt duration	L	15	S
2244	Interval between starts		60	1_
2344	(when starting-attempt duration > rated starting-attempt duration)	R	60	S
2246	Starting attempts within 30 minutes		c	
2346	(at +20°C ambient temperature with battery full), max.	L	6	-

15. Starting (pneumatic/oil pressure starter)

10: Starting (pricamation in 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	1.1	
	Control with engine controller			
	Air consumption/start attempt			2
115	(engine not preheated)		1.0	
115	Engine without generator	R	1.2	m³n
	Control with engine controller			
116	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			lia
23	(max. 40 bar) (engine preheated)	R	<u> </u>	liter



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24	Starting air tank for 3 start attempts	R	_	liter
- '	(max. 30 bar) (engine preheated)	11		iitei
25	Starting air tank for 6 start attempts	R		liter
23	(max. 40 bar) (engine preheated)	IX.		iitei
26	Starting air tank for 6 start attempts	R		liter
20	(max. 30 bar) (engine preheated)	IX.		iitei
27	Starting air tank for 10 start attempts	R		litor
27	(max. 40 bar) (engine preheated)	K	-	liter
28	Starting air tank for 10 start attempts	R		liter
20	(max. 30 bar) (engine preheated)	I.		littei
29	Starting air tank for 3 start attempts	R	N	liter
23	(max. 40 bar) (engine not preheated)			
30	Starting air tank for 3 start attempts	R	N	liter
30	(max. 30 bar) (engine not preheated)	ĸ		
31	Starting air tank for 6 start attempts	В	N	liter
31	(max. 40 bar) (engine not preheated)	R		
32	Starting air tank for 6 start attempts	R	N	litor
32	(max. 30 bar) (engine not preheated)	K	IN .	liter
33	Starting air tank for 10 start attempts	R	N	litor
33	(max. 40 bar) (engine not preheated)	K	IN	liter
34	Starting air tank for 10 start attempts		N	liter
34	(max. 30 bar) (engine not preheated)	R	IN .	

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	dograps (°)
	(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)	IX.	J-	littei

19. Masses / dimensions

No.	Description	Index	Value	Unit
	Engine mass, dry			
9	(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

22. Acoustics

No.	Description	Index	Value	Unit
101	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +3dB(A) tolerance)	R	115	dB(A)
201	Exhaust noise, unsilenced - CP (sound power level LW, ISO 6798, +3dB(A) tolerance)	R	127	dB(A)
103	Exhaust noise, unsilenced - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798) Spectrum No.	R	736747e	-
109	Engine surface noise with attenuated intake noise (filter) - CP (free-field sound-pressure level Lp, 1m distance, ISO 6798, +2dB(A) tolerance)	R	101	dB(A)
209	Engine surface noise with attenuated intake noise (filter) - CP (sound power level LW, ISO 6798, +2dB(A) tolerance)	R	118	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	736727e	-

> Actual value must be greater than specified value <a> Actual value must be less than specified value



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 NEA Singapore for ORDE; EPA Nonroad T2 Compliant;

23. TBO and load profile (case A)

20. 12	o and load prome (dase A)			
No.	Description	Index	Value	Unit
1	TBO (Time between Overhaul)		18000	h
	(related to standard load profile (Pn,tn))	L L		
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	R	2	-
12	(< 10% to >90% load)	K		
13	Number of load changes/hour, type II		2	-
13	(< 10% to between 70% and 90% load)	R		
15	Maintenance schedule No.		N	-
16	Maintenance schedule No. (cont.)		N	-