Compressors XAMS 496
AML: Principal Data

		EC			NON EC
Reference conditions					
1.Absolute inlet pressure	bar	1			1
2.Relative air humidity	%	0			0
3.Air inlet temperature	°C	20			20
4.Normal effective working pressure	bar	9			8.6
The inlet conditions are specified at the air inlet grating outside the canopy					
Limitations					
1.Minimum effective receiver pressure	bar	4			4
2.Maximum effective receiver pressure, compressor unloaded	bar	10			10
3.Maximum ambient temperature at sea level	°C	50 (5)			50 (5)
4.Minimum starting temperature	°C	-10			-10
5.Minimum starting temperature, with coldstart equipment	°C	-25			-25
6.Altitude capability	m	see separate curve			
Performance data [1]					
1.Engine shaft speed, normal and maximum	r/min	1800			1800
2.Engine shaft speed, compressor unloaded	r/min	1300			1300
3.Free air delivery [2]	l/s	500 (5)			500 (5)
4.Fuel consumption:			fuelexpert	no fuelexp	
- at 100% FAD	kg/h		45.8	45.8	
- at 75% FAD	kg/h		35.8	40.9	
- at 50% FAD	kg/h		30.9	35.1	
- at 25% FAD	kg/h		28.2	29.0	
- at unload	kg/h		24.5	24.5	
5.Specific fuel consumption at 100% FAD	g/m³		25.40		
6.Typical oil content of compressed air	mg/m³	< 3			< 3
7.Engine oil consumption (maximum)	g/h	114.50			114.5
8.Compressed air temperature at outlet valves	°C	110			110
9.Noise level					
- Sound pressure level (Lp), measured according to		ISO 2151			EPA
under free field conditions at 7 m distance	dB(A)	72			76
- Sound power level (Lw) complies with					
2000/14/EC	dB(A)	100			
84/533/EEC and 85/406/EEC limits	dB(A)				104

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Design data

Compressor

1.Number of compression stages		1

Engine

1.Make		Caterpillar
2.Type		C9 ATAAC
3.Coolant		Liquid
4.Number of cylinders		6
5.Bore	mm	112.00
6.Stroke	mm	149.00
7.Swept volume	l	8.81
8.Output according to 80/1269/EEC at normal shaft speed	kW	224
- Load factor	%	85 (7)
9.Capacity of oil sump :		
- Initial fill	l	34.00
- Refill (max.) ...(4)	l	32.00
10.Capacity of cooling system	l	54.00

Unit

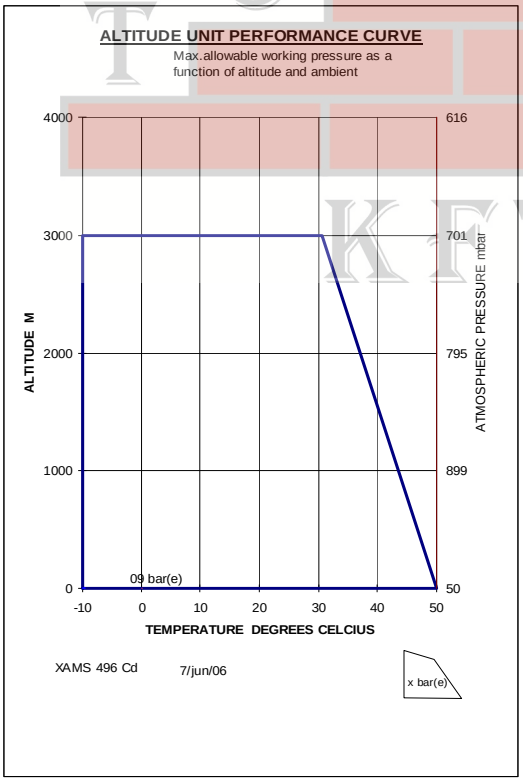
1.Capacity of compressor oil system	l	80.00
2.Net capacity of air receiver	l	164.00
3.Capacity of fuel tanks	l	538 (6)
4.Air volume at inlet grating (approx;) 3)	m³/s	13

1) At reference conditions, if applicable, and at normal shaft speed unless otherwise stated

2)Data	measured according	Tolerance
Free air delivery	ISO 1217 ed. 3 1996 annex D	+/- 5% 25l/s<FAD<250l/s +/- 4% 250l/s <FAD

The international standard ISO 1217 corresponds to following national standards:
- British BSI 1571 part 1
- German DIN 1945 Part 1
- Swedish SS-ISO 1217
- American ANSI PTC9

3) Air required for engine and compressor cooling, combustion and for compression
4) with filter change.
5) With aftercooler: FAD: 495l/s, LAT 5°C less
6) Wagon version, Tandem version 538l
7) Typical average load factor



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Compressors XAMS 1050 CD6
AML: Principal Data

Reference conditions		EC		NON EC
1.Absolute inlet pressure	psi	14.5		14.5
2.Relative air humidity	%	0		0
3.Air inlet temperature	°F	68		68
4.Normal effective working pressure	psi	124.7		124.7
The inlet conditions are specified at the air inlet grating outside the canopy				
Limitations				
1.Minimum effective receiver pressure	psi	58.0		58
2.Maximum effective receiver pressure, compressor unloade	psi	145.0		145
3.Maximum ambient temperature at sea level	°F	122 (5)		122 (5)
4.Minimum starting temperature	°F	14		14
5.Minimum starting temperature, with coldstart equipment	°F	-13		-13
6.Altitude capability	ft	see separate curve		
Performance data 1)				
1.Engine shaft speed, normal and maximum	r/min	1800		1800
2.Engine shaft speed, compressor unloaded	r/min	1300		1300
3.Free air delivery 2)	cfm	1059 (5)		1059 (5)
4.Fuel consumption:			fuelexpert	no fuelexp
- at 100% FAD	lb/h		101.0	101.0
- at 75% FAD	lb/h		78.9	90.2
- at 50% FAD	lb/h		68.1	77.4
- at 25% FAD	lb/h		62.2	63.9
- at unload	lb/h		54.0	54.0
5.Specific fuel consumption at 100% FAD	lb/1000cu ft		1.59	
6.Typical oil content of compressed air	oz/1000cu ft	< 0.003		< 0.003
7.Engine oil consumption (maximum)	oz/h	4.038415		4.038415
8.Compressed air temperature at outlet valves	°F	230110		230110
9.Noise level				
- Sound pressure level (Lp), measured according to		ISO 2151		EPA
under free field conditions at 23 ft distance	dB(A)	72		76
- Sound power level (Lw) complies with				
2000/14/EC	dB(A)	100		
84/533/EEC and 85/406/EEC limits.	dB(A)			104

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Design data

Compressor		
1.Number of compression stages		1
Engine		
1.Make		Caterpillar
2.Type		C9 ATAAC
3.Coolant		Liquid
4.Number of cylinders		6
5.Bore	in	4.41
6.Stroke	in	5.87
7.Swept volume	cu in	537.5862
8.Output according to 80/1269/EEC at normal shaft speed	BHP	300
- Load factor	%	85 (7)
9.Capacity of oil sump :		
- Initial fill	us gallon	8.98
- Refill (max.) (4)	us gallon	8.45
10.Capacity of cooling system	us gallon	14.27
Unit		
1.Capacity of compressor oil system	us gallon	21.14
2.Net capacity of air receiver	us gallon	43.33
3.Capacity of fuel tanks	us gallon	142.14 (6)
4.Air volume at inlet grating (approx;)3)	cu ft/s	463

1) At reference conditions, if applicable, and at normal shaft speed unless otherwise stated

2)Data	measured according	Tolerance
Free air delivery	ISO 1217 ed. 3 1996 annex D	+/- 5% 53cfm<FAD<530 cfm +/- 4% 530cfm <FAD

The international standard ISO 1217 corresponds to following national standards:
- British BSI 1571 part 1
- German DIN 1945 Part 1
- Swedish SS-ISO 1217
- American ANSI PTC9

3) Air required for engine and compressor cooling, combustion and for compression
4) with filter change.
5) With aftercooler: FAD:1049cfm, LAT 41°F less
6) Wagon version, Tandem version 142 us gallon
7) Typical average load factor

