

Manufacturer (trade mark):	Clover Germany	Type/Model OEM:	CB436A
Lot/Part number:	DPCP1505EP	Toner color(s):	Monochrome
Main application:	To be used on the relevant printers according to remanufacturer instructions		
Intended yield:	2000	Take over value of existing test protocol :	(box) Yes, from ISO19752
Test device:	VNF3C01491 / TNT7108 / VNF3F45649		
Test climate:	Temperature: 23		
Deviations of the determined test conditions	Tester 1): Aleksandar Kojić	Test location 2):	TRS EUROPE
	Test date: 17.2.2009		

1) If values are taken over from test protocol, the signing person is responsible, that the protocols, from which the values have been taken off, are plausible and correct.
 2) Either testing place or place where the protocol is made

Test sample (A)	Type	Used for valuation	Charge/Serial number
1	2000	Yes	N/A
2	2020	Yes	N/A
3	2500	Yes We use for A1 the	N/A
4	2210	Yes MAX, for A2 the	N/A
5	2100	Yes MEDIAN and for A3 the	N/A
6	2000	Yes MIN value of the list at	N/A
7	2070	Yes left	N/A
8	2110	Yes	N/A
9	2000	Yes	N/A

Comparing Sample (B)	Type	Used for valuation	Charge/Serial number
1	2000	Yes/no Yes	N/A
2	2000	Yes/no Yes	N/A
3	2000	Yes/no Yes	N/A
4		Yes/no	
5		Yes/no	

OEM data taken from OEMs own ISO19752 or ISO19798 declarations of yield

Administrative checking of health related attributes (5.2)

Is there an EG- Safety Data Sheet of the used toner? Yes/no **Yes**

If there are no information of the AMES test in the EG Safety Data Sheet

Is there a test report about the AMES test of the used toner? Yes/no **Not Aplicable**

If not: Description **All MSDSs mention Ames test**

Checking the influence of the toner module on the printer (5.3)

Is the toner leaking less than the original? Yes/no **Yes**

Is the interaction between printer and toner module acceptable? Yes/no **Yes**

If not: Description

Checking the initialization (5.4)

Is the print out acceptable right after the toner module has been inserted? Yes/no **Yes**

If not: Describe fault

Checking the yield number (5.5)

	1	2	3	Average (A or V)
Yield A: (A1+A2+A3)/3= \bar{A}	2500	2070	2000	2190
Yield V: (V1+V2+V3)/3= \bar{V}	2000	2000	2000	2000

Alternative:

Yield A: Result of test after ISO/IEC 19752 \bar{A}

Reference to the test protocol:

Test date:

Yield V: Result of test after ISO/IEC 19752 \bar{V}

Reference to the test protocol:

Test date:

Result: $EZ = \bar{A} / \bar{V}$

	Yes	No	Not Aplicable
Is the expected yield (EZ) reached?	YES		
Is the expected page yield reached?	YES		

Checking the black print/Color reproduction (5.6.2)

Average value of the 2 areas F test print A1: N/A

Average value of the 2 areas F comparing print V1: N/A

Difference is not higher than Δ^*+5 for Monochrom Yes/no/Not Aplicable
 Color difference $\Delta E \leq 18$ for Color Yes/no/Not Aplicable
 Average value of the 2 areas F test print A2: N/A

Average value of the 2 areas F comparing print V2: N/A
 Difference is not higher than Δ^*+5 for Monochrom Yes/no/Not Aplicable
 Color difference $\Delta E \leq 18$ for Color Yes/no/Not Aplicable
 Average value of the 2 areas F test print A3: N/A

Average value of the 2 areas F comparing print V3: N/A
 Difference is not higher than Δ^*+5 for Monochrom Yes/no/Not Aplicable
 Color difference $\Delta E \leq 18$ for Color Yes/no/Not Aplicable

Checking the fade (5.6.3)
BLACK

Test print A1

Color values 1 6 A F	1	6	A	F
after 50 pages	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
Color values 1 6 A F	1	6	A	F
The biggest deviation	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

Comparing print V1

Color values 1 6 A F	1	6	A	F
after 50 pages	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
Color values 1 6 A F	1	6	A	F
The biggest deviation	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

Result determination

	1	6	A	F
Difference				
$\Delta L \leq 8$	N/A	N/A	N/A	N/A
Difference within allowed parameters	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

BLACK

Test print A2

Color values 1 6 A F	1	6	A	F
after 50 pages	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
Color values 1 6 A F	1	6	A	F
The biggest deviation	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

Comparing print V2

Color values 1 6 A F	1	6	A	F
after 50 pages	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
Color values 1 6 A F	1	6	A	F
The biggest deviation	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

Result determination

	1	6	A	F
Difference				
$\Delta L \leq 8$	N/A	N/A	N/A	N/A
Difference within allowed parameters	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

BLACK

Test print A3

Color values 1 6 A F	1	6	A	F
after 50 pages	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
Color values 1 6 A F	1	6	A	F
The biggest deviation	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

Comparing print V2

Color values 1 6 A F	1	6	A	F
after 50 pages	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>
Color values 1 6 A F	1	6	A	F
The biggest deviation	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

Result determination

	1	6	A	F
Difference				
$\Delta L \leq 8$	N/A	N/A	N/A	N/A
Difference within allowed parameters	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>	<input type="text" value="N/A"/>

Checking toner adhesion

Test process: visual (tape method):

Is the resistance in between the acceptable parameters? Yes
If not: Describe deviation

Checking the grey page/color uniformity (5.6.5)

Are the lightness differences in between the acceptable parameters? Yes
If not: Describe deviation

Checking the background (5.6.6)

Is the background smudge in between the acceptable parameters (pattern B1)? Yes
If not: Describe deviation

Checking the ghosting (5.6.7)

Is the repeating of the back rectangles in between the acceptable parameters (pattern B2)? Yes
If not: Describe deviation

Checking toner miscibility (5.6.8)

Is the toner miscibility given? N/A
If not: Describe deviation

OVERALL RESULT: Passed