

Manufacturer (trade mark):	Clover Germany	Type/Model OEM:	CLT-Y503L/ELS
Lot/Part number:	DPCC3010YE	Toner color(s):	YELLOW
Main application:	To be used on the relevant printers according to remanufacturer instructions		
Intended yield:	5000		
Test device:	0AQEBJEH20000NL / 0AQEBJEH60000KV / 0AQEBJEH29003NL	Take over value of existing test protocol :	(box) Yes, from ISO19798
Test climate:			
Temperature:	25	Relative humidity:	42
Deviations of the determined test conditions			
Tester 1):	Aleksandar Kojic	Test location 2):	CLOVER SERBIA
Test date:	12.4.2017		

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	6365	Yes	Sample 1
2	6100	Yes	Sample 2
3	6230	Yes We use for A1 the	Sample 3
4	5729	Yes MAX, for A2 the	Sample 4
5	5914	Yes MEDIAN and for A3 the	Sample 5
6	6007	Yes MIN value of the list at	Sample 6
7	6092	Yes left	Sample 7
8	9163	Yes	Sample 8
9	5978	Yes	Sample 9
Comparing Sample (B)	Type	Used for valuation	Charge/Serial number
1	5000	Yes/no Yes	OEM Sample/Spec
2	5000	Yes/no Yes	OEM Sample/Spec
3	5000	Yes/no Yes	OEM Sample/Spec
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)

YELLOW

	1	2	3	Average ($\bar{A}$ or $\bar{V}$)
Yield A: $(A1+A2+A3)/3=\bar{A}$	9163	6092	5729	6995
Yield V: $(V1+V2+V3)/3=\bar{V}$	5000	5000	5000	5000

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: $EZ=\bar{A}/\bar{V}$	1,40

	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:	84,4		
Average value of the 2 areas F comparing print V1:	84,5		
Difference is not higher than $\Delta \leq 5$ for Monochrome	Not Aplicable	Yes/No/Not Aplicable	Not Aplicable
Color difference $\Delta E \leq 18$ for Color	0,1	Yes/No/Not Aplicable	Yes
Average value of the 2 areas F test print A2:	85,9		
Average value of the 2 areas F comparing print V2:	87,1		
Difference is not higher than $\Delta \leq 5$ for Monochrome	Not Aplicable	Yes/No/Not Aplicable	Not Aplicable
Color difference $\Delta E \leq 18$ for Color	1,2	Yes/No/Not Aplicable	Yes
Average value of the 2 areas F test print A3:	85,4		
Average value of the 2 areas F comparing print V3:	84,7		

Difference is not higher than $\Delta \leq 5$ for Monochrome
Color difference $\Delta E \leq 18$ for Color

Not Applicable
0,7

Yes/No/Not Applicable
Yes/No/Not Applicable

Not Applicable
Yes

Checking the fade (5.6.3)

YELLOW

Test print A1				
Color values 1 6 A F	1	6	A	F
after 50 pages	92,3	90,1	88,6	86,1
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,3	1,6	2,5	2,2
Comparing print V1				
Color values 1 6 A F	1	6	A	F
after 50 pages	91	89,8	87,1	83,8
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,9	0,2	0,7	1,2
Result determination				
Difference $\Delta L \leq 8$	1	6	A	F
Difference within allowed parameters	1,6	1,4	1,8	1
YES	YES	YES	YES	YES

Test print A2 YELLOW				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,9	88,3	85,8	84,2
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,2	2	2,4	3,1
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	92,1	89,4	86,8	85,2
Color values 1 6 A F	1	6	A	F
The biggest deviation	1	2	2,9	2,7
Result determination				
Difference $\Delta L \leq 8$	1	6	A	F
Difference within allowed parameters	0	0	0,5	0,4
YES	YES	YES	YES	YES

Test print A3 YELLOW				
Color values 1 6 A F	1	6	A	F
after 50 pages	91,5	90	87,6	86,2
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,6	1,7	1,6	1,5
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	91,2	89,8	87,3	84
Color values 1 6 A F	1	6	A	F
The biggest deviation	2	0,4	1	1,2
Result determination				
Difference $\Delta L \leq 8$	1	6	A	F
Difference within allowed parameters	1,4	1,3	0,6	0,3
YES	YES	YES	YES	YES

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 color differences in between the acceptable parameters (pattern B2-B5) $\Delta E \leq 8$? Yes

If not: Describe deviation

Checking the background (5.6.6)

Is the background smudge between the acceptable parameters (pattern B1-B5)? 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-B5)? 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