

Manufacturer (trade mark):	Clover Germany	Type/Model OEM:	MLT-D203U
Lot/Part number:	0	Toner color(s):	Monochrome
Main application:	To be used on the relevant printers according to remanufacturer instructions		
Intended yield:	15000		
	ZDGGBJEF10002HF /		
	ZDGGBJEFDC0001JB		
Test device:	/ ZDGGJADB0001LM	Take over value of existing test protocol :	(box) Yes, from ISO19752
Test climate:			
Temperature:	23	Relative humidity:	42
Deviations of the determined test conditions			
Tester 1):	Aleksandar Kojic	Test location 2):	TRS EUROPE
Test date:	6.11.2015		

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	17926	Yes	Sample 1
2	17005	Yes	Sample 2
3	18111	Yes We use for A1 the	Sample 3
4	18240	Yes MAX, for A2 the	Sample 4
5	17950	Yes MEDIAN and for A3 the	Sample 5
6	19658	Yes MIN value of the list at	Sample 6
7	18501	Yes left	Sample 7
8	18230	Yes	Sample 8
9	17569	Yes	Sample 9
Comparing Sample (B)	Type	Used for valuation	Charge/Serial number
1	15000	Yes/no Yes	OEM Sample/Spec
2	15000	Yes/no Yes	OEM Sample/Spec
3	15000	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)

Monochrome

	1	2	3	Average ($\bar{A}$ or $\bar{V}$)
Yield A: $(A1+A2+A3)/3=\bar{A}$	19658	18111	17005	18258
Yield V: $(V1+V2+V3)/3=\bar{V}$	15000	15000	15000	15000

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

1,22

Is the expected yield (EZ) reached?

Is the expected page yield reached?

Yes	No	Not Aplicable
YES		
YES		

Checking the black print/Color reproduction (5.6.2)

Average value of the 2 areas F test print A1: 22,8

Average value of the 2 areas F comparing print V1: 23,9

Difference is not higher than $\Delta \leq 5$ for Monochrome **1,1**

Color difference $\Delta E \leq 18$ for Color **Not applicable**

Average value of the 2 areas F test print A2: 23

Average value of the 2 areas F comparing print V2: 23,3

Difference is not higher than $\Delta \leq 5$ for Monochrome **0,3**

Color difference $\Delta E \leq 18$ for Color **Not applicable**

Average value of the 2 areas F test print A3: 23,4

Average value of the 2 areas F comparing print V3: 23,4

Yes/No/Not Aplicable **Yes**

Yes/No/Not Aplicable **Not Aplicable**

Yes/No/Not Aplicable **Yes**

Yes/No/Not Aplicable **Not Aplicable**

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

Yes/No/Not Aplicable
 Yes/No/Not Aplicable

Checking the fade (5.6.3)**Monochrome**

Test print A1				
Color values 1 6 A F	1	6	A	F
after 50 pages	92,2	78,5	64,8	22,8
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,5	5,9	7,7	0,1
Comparing print V1				
Color values 1 6 A F	1	6	A	F
after 50 pages	92,5	75	58,4	22,9
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,6	3,7	5,2	1,9
Result determination				
Difference $\Delta L \leq 8$	1,1	2,2	2,5	1,8
Difference within allowed parameters	YES	YES	YES	YES

Test print A2 Monochrome

Color values 1 6 A F	1	6	A	F
after 50 pages	91,9	78,9	66,8	22,4
Color values 1 6 A F	1	6	A	F
The biggest deviation	1	5,9	9	1,3
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	92,5	74,9	57,3	21,6
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,7	2,5	2,9	2,6
Result determination				
Difference $\Delta L \leq 8$	1	3,4	6,1	1,3
Difference within allowed parameters	YES	YES	YES	YES

Test print A3 Monochrome

Color values 1 6 A F	1	6	A	F
after 50 pages	92	77,9	63	21,7
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,3	5,6	7,1	2,5
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	91,5	74,1	55,7	21,3
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,9	3,2	6,7	3
Result determination				
Difference $\Delta L \leq 8$	0,4	2,4	0,4	0,5
Difference within allowed parameters	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 differences in brightness between the acceptable parameters (pattern B2) $\Delta L \leq 5$? Yes
 If not: Describe deviation

Checking the background (5.6.6)

Is the background smudge 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