Manufacturer (trade mark):	**Clover Germany**	Type/Model OEM:	ML-D3470B
Lot/Part number:	**ML3470-HY**	Toner color(s):	**0**
Main application:	To be used on the relevant printers according to remanufacturer instructions		
Intended yield:	10000		
Test device:	Z4Z8BABZA01800E / Z4Z8BABZA01637J / Z4Z8BABZ200675X	Take over value of existing test protocol :	(box) Yes, from ISO19752
Test climate:			
Temperature:	23	Relative humidity:	40
Deviations of the determined test conditions			
Tester 1):	Aleksandar Kojić	Test location 2):	**TRS EUROPE**
Test date:	30.11.2014		

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	11212	Yes		A055S
2	10880	Yes		A035S
3	10500	Yes	We use for A1 the	A038S
4	11580	Yes	MAX, for A2 the	A061S
5	10450	Yes	MEDIAN and for A3 the	A042S
6	11503	Yes	MIN value of the list at	A047S
7	10520	Yes	left	A066S
8	11408	Yes		A044S
9	10930	Yes		A043S

Comparing Sample (B)	Type	Used for valuation		Charge/Serial number
1	10000	Yes/no	Yes	N/A
2	10000	Yes/no	Yes	N/A
3	10000	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)

BLACK

	1	2	3	Average (Ā or V)
Yield A: (A1+A2+A3)/3= Ā	11580	10930	10450	10987
Yield V: (V1+V2+V3)/3=V	10000	10000	10000	10000

Alternative:

Yield A: Result of test after ISO/IEC 19752 Ā	
Reference to the test protocol:	
Test date:	
Yield V: Result of test after ISO/IEC 19752 V	
Reference to the test protocol:	
Test date:	
Result: EZ=Ā/V	1,10

	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:	22,8
Average value of the 2 areas F comparing print V1:	22,8

Difference is not higher than Δ*+-5 for Monochrom	0	Yes/no/Not Aplicable	Yes
Color difference ΔE≤18 for Color		Yes/no/Not Aplicable	N/A
Average value of the 2 areas F test print A2:	22,9		
Average value of the 2 areas F comparing print V2:	23,3		
Difference is not higher than Δ*+-5 for Monochrom	0,4	Yes/no/Not Aplicable	Yes
Color difference ΔE≤18 for Color		Yes/no/Not Aplicable	N/A
Average value of the 2 areas F test print A3:	23		
Average value of the 2 areas F comparing print V3:	22,9		
Difference is not higher than Δ*+-5 for Monochrom	0,1	Yes/no/Not Aplicable	Yes
Color difference ΔE≤18 for Color		Yes/no/Not Aplicable	N/A

Checking the fade (5.6.3)

BLACK

Test print A1				
Color values 1 6 A F	1	6	A	F
after 50 pages	86,6	69,9	45,1	23,2
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,8	1,5	1,4	0,9
Comparing print V1				
Color values 1 6 A F	1	6	A	F
after 50 pages	88,3	73,4	51	24
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,1	4,4	5,2	1,2
Result determination	1	6	A	F
Difference ΔL≤8	0,3	2,9	3,8	0,3
Difference within allowed parameters	Yes	Yes	Yes	Yes

BLACK

Test print A2				
Color values 1 6 A F	1	6	A	F
after 50 pages	86,4	69,9	42,7	22
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,6	4,1	4,6	1,7
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	88,3	74,2	51,6	24,8
Color values 1 6 A F	1	6	A	F
The biggest deviation	1	2,2	3,3	1,5
Result determination	1	6	A	F
Difference ΔL≤8	0,6	1,9	1,3	0,2
Difference within allowed parameters	Yes	Yes	Yes	Yes

BLACK

Test print A3				
Color values 1 6 A F	1	6	A	F
after 50 pages	86,1	71,2	46,2	23,4
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,8	2,9	1,8	0,6
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	87,5	73,8	51,8	23,8
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,2	2,7	3,6	1
Result determination	1	6	A	F
Difference ΔL≤8	0,4	0,2	1,8	0,4
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 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