Manufacturer (trade mark):	**Clover Germany**	Type/Model OEM:	TN3380
Lot/Part number:	**0**	Toner color(s):	**Monochrome**
Main application:	To be used on the relevant printers according to remanufacturer instructions		
Intended yield:	8000		
Test device:	E70646E2J158391 / E70650E3N376004 / E70650J3N489714	Take over value of existing test protocol :	(box) Yes, from ISO19752
Test climate:			
Temperature:	21	Relative humidity:	45
Deviations of the determined test conditions			
Tester 1):	Aleksandar Kojic	Test location 2):	**TRS EUROPE**
Test date:	**10.1.2015**		

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	8000	Yes		Sample 1
2	8015	Yes		Sample 2
3	8112	Yes	We use for A1 the	Sample 3
4	8047	Yes	MAX, for A2 the	Sample 4
5	8075	Yes	MEDIAN and for A3 the	Sample 5
6	8031	Yes	MIN value of the list at	Sample 6
7	8030	Yes	left	Sample 7
8	8067	Yes		Sample 8
9	8072	Yes		Sample 9

Comparing Sample (B)	Type	Used for valuation		Charge/Serial number
1	8000	Yes/no	Yes	OEM Sample/Spec
2	8000	Yes/no	Yes	OEM Sample/Spec
3	8000	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 (Ā or V)
Yield A: (A1+A2+A3)/3= Ā	8112	8047	8000	8053
Yield V: (V1+V2+V3)/3=V	8000	8000	8000	8000

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	1,01

	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:	24,3		
Average value of the 2 areas F comparing print V1:	23,4		
Difference is not higher than Δ≤5 for Monochrom	0,9	Yes/No/Not Aplicable	Yes
Color difference ΔE≤18 for Color	Not aplicable	Yes/No/Not Aplicable	Not Aplicable
Average value of the 2 areas F test print A2:	24		
Average value of the 2 areas F comparing print V2:	22,9		
Difference is not higher than Δ≤5 for Monochrom	1,1	Yes/No/Not Aplicable	Yes
Color difference ΔE≤18 for Color	Not aplicable	Yes/No/Not Aplicable	Not Aplicable
Average value of the 2 areas F test print A3:	24,1		
Average value of the 2 areas F comparing print V3:	23,6		

Difference is not higher than Δ≤5 for Monochrom	0,5	Yes/No/Not Aplicable	Yes
Color difference ΔE≤18 for Color	Not aplicable	Yes/No/Not Aplicable	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	91,8	77,3	55,2	24
Color values 1 6 A F	1	6	A	F
The biggest deviation	3,1	1,5	0,3	0,1
Comparing print V1				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,6	78	54,1	23,9
Color values 1 6 A F	1	6	A	F
The biggest deviation	2,2	0,6	0,9	1,3
Result determination	1	6	A	F
Difference ΔL≤8	0,9	0,9	0,6	1,2
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	91,4	76,5	54,1	23,4
Color values 1 6 A F	1	6	A	F
The biggest deviation	2,1	2,6	1,9	1,7
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,4	77,9	52,6	24,3
Color values 1 6 A F	1	6	A	F
The biggest deviation	2,4	2,3	1,4	1,9
Result determination	1	6	A	F
Difference ΔL≤8	0	0,3	0,5	0,2
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	76,8	54,4	22,9
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,9	2,8	0,9	1
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	91,4	74,6	53,4	24,6
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,1	0,7	2,4	1,6
Result determination	1	6	A	F
Difference ΔL≤8	0,8	2,1	1,5	0,6
Difference within allowed parameters	YES	YES	YES	YES

Checking toner adhesition
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) ΔL≤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**