

Manufacturer (trade mark): **Clover Germany** Type/Model OEM: **CE505A**
 Lot/Part number: **DPC505AEP** Toner color(s): **Monochrome**
 Main application: To be used on the relevant printers according to remanufacturer instructions
 Intended yield: 2300
 CNCJH52371 /
 VNC3B89647 /
 Test device: CNCJ527703 Take over value of existing test protocol : (box) **Yes, from ISO19752**
 Test climate:
 Temperature: 23 Relative humidity: 44
 Deviations of the determined test conditions
 Tester 1): Aleksandar Kojic Test location 2): **TRS EUROPE**
 Test date: **2.11.2014**

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 | 2480 | Yes | Sample 1 |
| 2 | 2320 | Yes | Sample 2 |
| 3 | 2600 | Yes We use for A1 the | Sample 3 |
| 4 | 3800 | Yes MAX, for A2 the | Sample 4 |
| 5 | 3600 | Yes MEDIAN and for A3 the | Sample 5 |
| 6 | 3500 | Yes MIN value of the list at | Sample 6 |
| 7 | 3700 | Yes left | Sample 7 |
| 8 | 2600 | Yes | Sample 8 |
| 9 | 2400 | Yes | Sample 9 |
| Comparing Sample (B) | Type | Used for valuation | Charge/Serial number |
| 1 | 2300 | Yes/no Yes | OEM Sample/Spec 2907 |
| 2 | 2300 | Yes/no Yes | OEM Sample/Spec |
| 3 | 2300 | 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 | | | Average (Å or V) |
|---|------------|------|---------------|------------------|
| | 1 | 2 | 3 | |
| Yield A: (A1+A2+A3)/3= Å | 3800 | 2600 | 2320 | 2907 |
| Yield V: (V1+V2+V3)/3=V | 2300 | 2300 | 2300 | 2300 |
| Alternative: | | | | |
| Yield A: Result of test after ISO/IEC 19752 Å | | | | |
| 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=Å/V | | | | 1,26 |
| Is the expected yield (EZ) reached? | Yes | No | Not Aplicable | |
| 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: | 22,6 | | |
| Average value of the 2 areas F comparing print V1: | 25,2 | | |
| Difference is not higher than Δ≤5 for Monochrome | 2,6 | Yes/No/Not Aplicable | Yes |
| Color difference ΔE≤18 for Color | Not applicable | Yes/No/Not Aplicable | Not Aplicable |
| Average value of the 2 areas F test print A2: | 21,1 | | |
| Average value of the 2 areas F comparing print V2: | 24,9 | | |
| Difference is not higher than Δ≤5 for Monochrome | 3,8 | Yes/No/Not Aplicable | Yes |
| Color difference ΔE≤18 for Color | Not applicable | Yes/No/Not Aplicable | Not Aplicable |
| Average value of the 2 areas F test print A3: | 20,6 | | |
| Average value of the 2 areas F comparing print V3: | 24,1 | | |

Difference is not higher than $\Delta \leq 5$ for Monochrome
 Color difference $\Delta E \leq 18$ for Color 3,5
Not applicable

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

Checking the fade (5.6.3)

Monochrome

| Test print A1 | | | | |
|--------------------------------------|------|------|------|------|
| Color values 1 6 A F | 1 | 6 | A | F |
| after 50 pages | 87,6 | 73,4 | 62,5 | 23,4 |
| Color values 1 6 A F | 1 | 6 | A | F |
| The biggest deviation | 2 | 2,6 | 3,1 | 1,8 |
| Comparing print V1 | | | | |
| Color values 1 6 A F | 1 | 6 | A | F |
| after 50 pages | 89,5 | 71,6 | 58,5 | 24,9 |
| Color values 1 6 A F | 1 | 6 | A | F |
| The biggest deviation | 2,2 | 2,9 | 3,6 | 1,5 |
| Result determination | | | | |
| Difference $\Delta L \leq 8$ | 1 | 6 | A | F |
| | 0,2 | 0,3 | 0,5 | 0,3 |
| 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 | 91,6 | 70,1 | 59,6 | 22,6 |
| Color values 1 6 A F | 1 | 6 | A | F |
| The biggest deviation | 2,9 | 2,1 | 3,6 | 1,9 |
| Comparing print V2 | | | | |
| Color values 1 6 A F | 1 | 6 | A | F |
| after 50 pages | 91,4 | 70,9 | 60,2 | 23,1 |
| Color values 1 6 A F | 1 | 6 | A | F |
| The biggest deviation | 1 | 2,9 | 2,3 | 1,4 |
| Result determination | | | | |
| Difference $\Delta L \leq 8$ | 1 | 6 | A | F |
| | 2 | 0,8 | 1,3 | 0,5 |
| 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 | 90,8 | 71,2 | 59,3 | 23,8 |
| Color values 1 6 A F | 1 | 6 | A | F |
| The biggest deviation | 2,1 | 3,2 | 2,4 | 2,9 |
| Comparing print V2 | | | | |
| Color values 1 6 A F | 1 | 6 | A | F |
| after 50 pages | 92,1 | 69,9 | 59,1 | 22,6 |
| Color values 1 6 A F | 1 | 6 | A | F |
| The biggest deviation | 2,3 | 1,3 | 1,7 | 2,3 |
| Result determination | | | | |
| Difference $\Delta L \leq 8$ | 1 | 6 | A | F |
| | 0,2 | 1,9 | 0,7 | 0,6 |
| 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