Manufacturer (trade mark):		Type/Model OEM:	TK-590K	
Lot/Part number:	DPCTK590BE	Toner color(s):	BLACK	
Main application:	To be used on the relevant prin	ters according to remanufactur	er instructions	
Intended yield:	7000			
·	LWG6344673 /			
	LWG5Y38494 /	Take over value of		
Test device:	LWG5Y38495	existing test protocol:	(box)	Yes, from ISO19798
Test climate:		calculing tool protocol .	(50%)	100, 110111100 10100
		Dalativa humiditu	T44	1
Temperature:	24	Relative humidity:	41	
Deviations of the determined test conditions	T		r	1
	Aleksandar Kojic	l est location 2):	CLOVER SERBIA	
Test date:	05.11.2018			
1) If values are taken over from test protocol, the signing person is respor	nsible, that the protocols, from w	hich the values have been take	n 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
	7350	Yes		Sample 1
2		Yes		Sample 2
				•
3		Yes		Sample 3
4	7405	Yes	•	Sample 4
5	7612	Yes	MEDIAN and for A3 the	Sample 5
6	7489	Yes	MIN value of the list at	Sample 6
7	7156	Yes	left	Sample 7
8		Yes		Sample 8
	7637	Yes		Sample 9
Comparing Sample (B)	Type	Used for valuation	Voo	Charge/Serial number
OEM data taken from OEMs own	7000	Yes/no		OEM Sample/Spec
ISO19752 or ISO19798 declarations of		Yes/no		OEM Sample/Spec
3	7000	Yes/no	Yes	OEM Sample/Spec
yield 4		Yes/no		
5		Yes/no		
Administrative checking of health related attributes (5.	2)			
Is there an EG- Safety Data Sheet of the used toner?	-)		Yes/no	Voo
•	t. Data Chast		165/110	162
If there are no information of the AMES test in the EG Safe			V/	N A P I.
Is there a test report about the AMES test of the used tone			Yes/no	Not Aplicable
If not: Description	All MSDSs mention Ame	s test		
Checking the influence of the toner module on the prin	ter (5.3)			
Is the toner leaking less than the original?			Yes/no	Yes
Is the interaction between printer and toner module accept	able?		Yes/no	
If not: Description				
Checking the initialization (5.4)				
` ,	haan incerted?		Yes/no	Vaa
Is the print out acceptable right after the toner module has			res/no	res
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	7637	7405	7156	7399
Yield V: (V1+V2+V3)/3=V		7000		7000
Alternative:		7000	7000	7000
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				1.06
result. LZ 700		Yes	No	Not Aplicable
le the even extend violat (F7) week and	Г		INO I	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:	33.1			
Average value of the 2 areas F comparing print V1:				
Difference is not higher than ∆≤5 for Monochrom			Yes/No/Not Aplicable	Not Aplicable
Color difference ΔE≤18 for Color			Yes/No/Not Aplicable	
			1 CONTROLLADICADIE	Yes
Average value of the 2 areas F test print A2:				
Average value of the 2 areas F comparing print V2:				
Difference is not higher than ∆≤5 for Monochrom			Yes/No/Not Aplicable	Not Aplicable
Color difference ∆E≤18 for Color			Yes/No/Not Aplicable	Yes
Average value of the 2 areas F test print A3:			•	
Average value of the 2 areas F comparing print V3:				

Difference is not higher than Δ≤5 for Monochro Color difference ΔE≤18 for Colo		e 1.2	Yes/No/Not Aplicable Yes/No/Not Aplicable			Aplicable Aplicable	Not Aplicable Yes		
Chapting the fode (F.C.2)	DI ACK								
Checking the fade (5.6.3) Test print A	BLACK 1								
Color values 1 6 A	F1		6		Α		F		
after 50 page Color values 1 6 A		88.2	6	71.8	A	60.6	F	33.3	
The biggest deviation		3.9		3.7	A	1.6	Г	2.3	
Comparing print V	1								
Color values 1 6 A			6	74.0	A	50.0	F	04.4	
after 50 page Color values 1 6 A		89.2	6	71.6	A	53.8	F	31.4	
The biggest deviation		4.2	<u> </u>	2.9		6.8	•	2.4	
Result determination	n 1		6		A		F		
Difference ∆L≤	8	0.3		0.8		5.2		0.1	
Difference within allowed paramete	's YES		YES		YES	YE	S		
Test print A	2 BLACK								
Color values 1 6 A	F1		6		Α		F		
after 50 page Color values 1 6 A		87		70.8	^	56.7		32.8	
The biggest deviation		3.2	6	2.7	Α	1.5	F	2.3	
Comparing print V	2	0.2	L					2.0	
Color values 1 6 A			6		A		F	21.2	
after 50 page Color values 1 6 A		89.2	6	71.1	A	54.6	F	31.6	
The biggest deviation		2.2		2.2		4.5	- '	0.4	
Result determination			6		A		F		
Difference ∆L≤	8	1		0.5		3		1.9	
Difference within allowed paramete	's YES		YES	`	YES	YE	S		
Test print A	3 BLACK								
Color values 1 6 A			6		Α		F		
after 50 page		88.2		73.2		60.4		32.7	
Color values 1 6 A			6	0.7	A	4.4	F	4.41	
The biggest deviation Comparing print V		2.1		2.7		1.4		1.1	
Color values 1 6 A	F1		6		Α		F		
after 50 page Color values 1 6 A		90.5		71.1		53.4		31.2	
The biggest deviation		4.7	6	1.5	A	6.8	F	1.4	
Result determination			6		A		F		
Difference ∆L≤		2.6	0	1.2	A	5.4	г	0.3	
Difference within allowed paramete	's YES		YES		YES	YE	S		
Checking toner adhesition	n								
Test process: visual (tape method									
Is the resistance in between the acceptable parameters If not: Describe deviation								Yes	
ii not. Describe deviatio	"								
Checking the grey page/color uniformity (5.6.									
Are the color differences in between the acceptab								Yes	
parameters (pattern B2-B5) ∆E≤8 If not: Describe deviatic								162	
Checking the background (5.6.									
Is the background smudge between the acceptab parameters (pattern B1-B5)								Yes	
If not: Describe deviation								100	
2.									
Checking the ghosting (5.6. Is the repeating of the back rectangles in between the									
acceptable parameters (pattern B2-B5)								Yes	
If not: Describe deviation									
Charling towns missik Wey (5.0)									
Checking toner miscibility (5.6.4 Is the toner miscibility giver								Yes	
If not: Describe deviation									

OVERALL RESULT: Passed