



## Profile of rolling bearing damage (Bearing: KA04)

Category			Unit	Specification/Value	
_		Bearing Type	-	deep groove ball bearing	
General info		Bearing designation (dimension series, bore code)	-	6203	
<u>ფ</u> _		Suffix	-	-	
tion	Geometry	Diameter of inner raceway	mm	24.00	
		Diameter of outer raceway	mm	33.10	
ша		Pitch circle diameter	mm	28.55	
infori		Number of rolling elements	pc.	8	
		Rolling element diameter	mm	6.75	
li:		Length of rolling element	mm	6.75	
Manufacturer specific information		Nominal pressure angle	0	0	
	Parameters	Static load rating	N	4750	
		Dynamic load rating	N	9500	
		Speed limit	min <sup>-1</sup>	12000	
		Manufacturer	-	FAG	
rmation	dentification	Bearing code	-	KA04	
	Identifi	Sample number	-	15-03	
nfo	Place of operation	Installation site	-	03	
Application specific information		Installation type (system type)	-	bearing damage test bench (KAt)	
		Operator	-	Chair of design and Drive Technology, Paderborn	
	Operating conditions	Number of load cycles	cycles	2166300	
		Lifetime	h:min	12:01	
		Load	N	3800	
		Dynamic equivalent load	N	3800	
		Rotational speed	min <sup>-1</sup>	2900	
		Load direction	0	0	
	O	Comment	-	n/a	





		Number of	damages			
Category				Damage 1	Damage 2	Damage 3
Damage	Type of Damage	Mode		fatigue		
		Sub-mode		n/a		
		Symptom		Pitting		
	Damage location	Component		OR		
		Position of damage		raceway		
		Damage combination		S		
		Arrangement of the respective damages		without repetitive damage		
	Geometry	Length	mm	2		
		Extent of damage		1		
		Width	mm	3		
		Depth	mm	n/a		
		Characteristic of damage		single point		
	Damage occurrence	Damage method		lifetime test		
		Cause of damage (category)		operating conditions and lubricant		
		Cause of damage (detailed)		overload, wrong viscosity, contamination		

## Legend

OR: outer ring
IR: inner ring
S: single damage
R: repetitive damage
M: multiple damage