

Qualitätssicherungsvereinbarung mit Produktionsmateriallieferanten Quality Assurance Agreement with Production Material Suppliers

8D-Report								
Vorgang / Concern title Example:	Reklamationsnummer Schaeffler 21		mationsdatum / plaint opening date					
Axial run-out of precision ring n.o.k.	Lieferant / Supplier 12	2011-08-01						
Name Lieferant / Supplier Sample supplier	Produktionsstandort / Sample city	Revision 8D-Re		Revision Datum / Dat 2011-08-17				
Zeichnungsnummer / Drawing no. F-123456789	Zeichnungsstand / Dra				ebezeichnung / Part name cision ring Ø20			
· · · · · · · · · · · · · · · · · · ·					ndete Menge / Quantity claimed			
Meyer F. Quality meyer@s Mueller S. Production mueller@	Contact (Email, Phone) ample.com sample.com ample.com	2 Problembeschrei Axial run-out from fa Nominal: 0,05 Ist: bis zu 0,1						
Teamleiter/ Champion Boss G. Q-Mgr. boss@sal	mple.com							
3 Sofortmaßnahme(n) / Corrective action(s)				Einführungsdatum /			
1. Check of stock: No parts on stock at prese		ho oomo defeature f	arroad In the Ulive -1-	oid plant	2011-08-01			
 Check customer stock: In the Herzogenau no parts were on stock. Check of stock in transit to customer: At p The stock parts of similar type 18, 19, 21 v 	resent there are no parts or	n the way to the custo	mer	·	2011-08-02 2011-08-01 2011-08-01			
Amendment: After return shipment the compl were found. We kindly ask you to adjust the p								
4 Fehlerursache(n) / Root cause(s)	ehler tritt erstmalig auf / Fir			/ D	1.6.4			
The root cause was detected as "wear of the spindle guidance. When wearing the grinding guidance- lead to deviations in the axial run-or Root cause analysis for non-detection of the The defect was not detected during quality in out in the machine chuck directly (simulation chuck (thus an elastic deformation of the part do not reach the required value. Also the point of time for the inspection was regrinding pressure after dressing of the grinding	wheel the grinding pressur but. A planned maintenance defect (3x5 Why method ar spection (operator self insp of end customer application t) reach the required value to not defined and so not all pr	re will rise and - in core and check of this pla oplied): nection) because the con. During analysis we for the run-out. When reduced parts showed	nbination with the in y was not part of the ontrol plan defined found out that the measuring the sam the deviations. The	ncreasing page maintenant the measu parts measu parts out e parts out e root caus	olay in the spindle ance plan. rement of the axial rungured directly in the coff the machine some			
5 Geplante Abstellmaßnahme(n) / Choser	corrective action(s)				sprüfung mit Methode			
Corrective actions regarding creation of the control of the spindle is less. Conduct clamping tests to identify the effective of the control	ce plan ading to lower/ no wear of t		Check Tech. o	of mainten	check by method of ance plan at machine machine manufacturer erent clamp. forces			
Corrective actions regarding detection of the 4. Update control plan: Point of time for chec clamping pressure)		ing" (biggest influence	of the Check	of revision	in ERP-system			
5. Purchase tapered gauges for measurement6. Update of control plan: Add additional chemical					eries of measurement in ERP-system			
6 Eingeführte Abstellmaßnahme(n) / Impl	emented corrective action	n(s)			Einführungsdatum /			
Corrective actions regarding creation of the c 1. Check of spindle play added to the mainte 2. Movement of the spindle head added to th 3. Process-FMEA no. M20-12345 updated, n	nance plan e maintenance plan	force added			2011-08-10 2011-08-10 2011-08-17			
Corrective actions regarding detection of the 4. Control plan updated: Point of time for che 5. Tapered gauges purchased 6. Control plan updated: Additional check of a	ck changed to "before dres			oressure)	2011-08-12 2011-08-17 2011-08-17			



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			Einführungsdatum / Implementation date
 Update of Design FMEA no. Update of Process FMEA no. M20-12345-V Update of Control plan no. PP001-M20, Rev Update von Arbeitsanweisung(en) / of work 		815	2011-08-17 2011-08-17 2011-08-10
8 Teamerfolg / Congratulations	Name Ersteller / Author 8D-Report Meyer Fritz	Abschlussdatum Liefo Closing date supplier 2011-08-17	
Unterschrift / Signature Teamleiter/ Champion		2011-00-17	

Entscheid / Decision Schaeffler

8D-Report akzeptiert/ accepted

3D / Yes

Nein/ No: Update erforderlich bis/ required until

Nein/ No: Update erforderlich bis/ pequired until

Nein/ No: Update erforderlich bis/ nequired until

Name / Unterschrift/ Signature

Anlagen, Fotos, Nachweise / Attachments, photos, evidences:

1. Process-FMEA: Extract of the modified chapter

1. PIOC	ess-Fivin	EA. EXII a	ici c		ailure Mode and Effects An					
				D	esign-FMEA	Process-FM	EĄ[Χ		
	Bestätigung durch Abteilungen und/o		Na	mei	Dept./Supplier 	Name/Dept/Supplier Meuer/ Qualitu Manager	mer	nt		
Systemsi	Potential	Potential effe	ect	D	Potential root cause	Current state				
criteria	defect					Planned actions Contact Planned actions	Berrains	Charac		RPZ
Face grinding	Surface not machined completely	Function not giv	en		Stock too low	Income inspection: Measurement of stock distribution	5	5	2	50
	Axial run-out (face - innerØ) n.o.k.	Function not giv	en		Kraft im Spannfutter zu groß	Spannkraft typweise festlegen	2	4	6	48

2. Control plan no. M20-12345-V03: Extract from the modified control plan, tapered gauges added Control plan M20-12345 V03 U03

Precision ring 20				FS	S
Pos.:	Nominal	Equipment	When		Ac
10	ID 16,5±0,1	Internal m. gauge	First part Last part		
11	OD 20±0,1	Caliper	1 of 100 pcs		
12	Axial run-out max. 0,05	Dial gauge (measurement in chuck)	100%		
13	Axial run-out max. 0,05	Indicating caliper+ tapered gauge	before every dressing cycle		

3. Extract of the modified maintenance plan machine no.0815

No. ToDo		When	a
11	Check of play ballscrew spindle	every 8 weeks	
12	Regular movement of the spindle head	if deviating in no.11	

4. Photo of new testing method with tapered gauge



5. Extract from the 3x5 Why analysis

	ect d		cript	ion: Axial run-out
Why	/ Was	'n,	t the	defect predicted during the planning process? (RABA, In spector plan)
	5 W	hν	s	
_	W	y	wası	n't the defect prevented by the production process? (My did the problem occur?)
P1		5	Wh	UR:
\rightarrow		Ť,	Wh	y didn't the quality inspection protect the customer from the defect?
P2	F1	П		weren't de nots nound during the in spections? in spection scarried out properly? Was the method.in spection equipmency and number of parts to be in spected appropriate?)
	\vdash	†		5 Whys
	F2		Q1	Why did the quality inspection not detect the deviations in the axial run-out? Because the control plan defined a check directly in the machine chuck?
			Q2	Why did the control plan define a check directly in the machine chuck? Because the purpose was to simulate the end-customer application.