

Defect Details

NC No.	8000893990
NC Date	01/10/2024
NC Submission Date	
Part No.	F20602602B
Part Name	STEERING SHAFT - K201C
Supplier Name & Code	101228-JAIN PRECISION AND FORGINGS PV
ETL Plant	1118-ETL E-92,93 Suspension
Defect Details	THREADING NOT OK-M16 THREDDING U/S

1. Problem Description

Defect Description	Threading Not Ok M16
Detection Stage	Inprocess
Problem Severity	Fitment
NG Quantity	6
Is Defect Repeatative?	No
Defect Sketch / Photo	

Supplier Communication Details

Quality Head Email ID	groupqaheadm134@gmail.com
Plant Head/CEO Email ID	jainpfl.m134@gmail.com
MD Email ID	jain@singlaforging.com

2. Stock Details & action taken for NG parts

Location	ETL End	Warehouse	Transit	Supplier FG	Supplier WIP	Total
Total Qty	3400	0	0	500	150	4050
Check Qty	3400	0	0	500	150	4050
NG Qty	6	0	0	0	0	6

Action taken on NG part

Scrap	6
Rework	0
Under Deviation	0

Containment Action

Immediate check the pipe line stock at ETL as well as our end and provided color code identification on each part.

3. Process Flow

Process Flow Description

1) Inward Insp 2) Cutting 3) Flaring 4) Boring & Facing 5) Bush Pressing 6) Welding 7) CNC - Bush boring , Threading & Facing 8) CNC - Turning 9) Buffing 10) Powder Coating 11) Inward Ins. 12) Final Inspection 13) Oiling 14) PDIR Inspection 15) Dispatch.

4. Process Details

Process / Operation	CNC - Bush Boring & Threading
Outsource	No
Machine / Cell	CNC
Machine / Cell No.	CNC

5. Problem Analysis

Type	Possible Cause	Fact Verification	Jud
Tool	~~~	~~~	O
Method	With adjusting thread gauging inspection	With adjusting thread gauging inspection	X
Man	Unskilled Operator	Less Awareness	X
Material	~~~	~~~~	O
Machine	Entry chamfer of threading no provision	Chamfer Was not given on drawing	X

6. Inspection Method Analysis (Current)

Inspection Method	Gauge
Other Inspection Method	
Check Point at Final Inspection	Yes
Checking Freq.	100%
Sampling	No
Sample Size	100/100

7. Root Cause Analysis (Occurance)

Why 1	M16 Thread Tight
Why 2	Go gauge not engaging to thread
Why 3	Chamfer of entry threading no provision
Why 4	
Why 5	
Root Cause (Occurance)	M16 entry threading chamfer not provided .

Root Cause Analysis (Outflow)

Why 1	M16 Thread Tight
Why 2	Mixed up, not inspected, parts in Ok lot
Why 3	OK & not ok parts kept openly on inspection table .
Why 4	No provision to keep
Why 5	
Root Cause (Outflow)	Mix up not inspected parts

8. Countermeasure (Occurrence , Outflow & System side Actions)

Type	Countermeasure Details	Responsibility	Target Date	Actual Date	Status
Occurance	On CNC machine bush boring Dia 14.50 mm Entry Chamfer included 1x45°. Program revised	Jitendra Sahu	28/09/2024	28/09/2024	Completed
Outflow	1) Inspection Table modified with divisions 2)station wise parameter & Inspector defined . 3)All material at customer end cross checked	Sandeep Davane	29/09/2024	29/09/2024	Completed

9. Inspection Method After Customer Complaint

Change In Inspection System	Yes
Change Details	Visual Inspection has been added to check entry chamfer of thread.
Inspection Method	Gauge
Other Inspection Method	
Check Point at Final Inspection	Yes
Checking Freq.	100%
Sampling	No
Sample Size	100/100

10. Evidence of Countermeasure

Occurance (Before)	M16 entry threading chamfer not provided . 1125_Occurance_Before.pptx
Occurance (After)	On CNC machine bush boring Dia 14.50 mm Entry Chamfer included 1x45°. Program revised 1125_Occurance_After.pptx
Outflow (Before)	Mix up not inspected parts 1125_Outflow_Before.pptx
Outflow (After)	1)Inspection Table modified with divisions 2)station wise parameter & Inspector defined . 1125_Outflow_After.pptx

11. Horizontal Deployment

Horizontal Deployment Required	Yes
Applicable Machine / Model / Plant	PRF Steering Shaft

12. Document Review

Documents	ControlPlan, WISOP, InspCheckSheet
Specify Other Document	OPL , Q Alert

13. Effectiveness Of Action

Reviewed Quantity	2000
Reason for submission	No any threading related issue found after action taken.

