

Defect Details

NC No.	7000949879
NC Date	04/10/2023
NC Submission Date	
Part No.	520PP01902
Part Name	WHEEL CLUTCH FINISHED UPGRADE
Supplier Name & Code	100656-MADHURA DIE CAST PVT.LTD
ETL Plant	1132-ETL K-226/1 TRANSMISSION
Defect Details	NOT AS PER SPECIFICATION-Tepar M/c 6.+0.5 u/s 4.95~5.95mm

1. Problem Description

Defect Description	Tapper Machining -Dimn 6+0.5 mm found 4.95~5.95 mm
Detection Stage	Receipt
Problem Severity	Fitment
NG Quantity	1650
Is Defect Repeatative?	Yes
Defect Sketch / Photo	

Supplier Communication Details

Quality Head Email ID	madhuradiecast@gmail.com
Plant Head/CEO Email ID	madhuradiecast@gmail.com
MD Email ID	madhuradiecast@gaikegroup.in

2. Stock Details & action taken for NG parts

Location	ETL End	Warehouse	Transit	Supplier FG	Supplier WIP	Total
Total Qty	500	0	0	500	500	1500
Check Qty	500	0	0	500	500	1500
NG Qty	2	0	0	1	0	3

Action taken on NG part

Scrap	3
Rework	0
Under Deviation	0

Containment Action

1.Casting 2.fetling 3. CNC 1st Set-up 4.CNC 2nd Set-up 5.Drilling & Tapping 6.Final Inspection

3. Process Flow

Process Flow Description

1.Casting 2.fetling 3. CNC 1st Set-up 4.CNC 2nd Set-up 5.Drilling & Tapping 6.Final Inspection

4. Process Details

Process / Operation	CNC 2nd Set-up
Outsource	No
Machine / Cell	02
Machine / Cell No.	CNC

5. Problem Analysis

Type	Possible Cause	Fact Verification	Jud
Material	Burr resting on face	Verified & Found ok	O
Man	Unskilled operator was operate machine	Skill Matrix verify found OK	O
Machine	Loader dia is less as compare to part resting area	Loader dia is found not ok	X

6. Inspection Method Analysis (Current)

Inspection Method	Other
Other Inspection Method	Visual inspection
Check Point at Final Inspection	Yes
Checking Freq.	100%
Sampling	No
Sample Size	1:1

7. Root Cause Analysis (Occurance)

Why 1	Tapper Machining-Dimn 6+0.5 mm found 4.95~5.95 mm
Why 2	Taper machining Problem on friction face
Why 3	CNC Machine Loader not covering complete resting area of part.
Why 4	Loader dia is less as compare to part resting area
Why 5	
Root Cause (Occurance)	Loader dia is less as compare to part resting area

Root Cause Analysis (Outflow)

Why 1	Taper Machining not checking at Final stage.
Why 2	Taper Machining checking not added in final inspection check sheet
Why 3	
Why 4	
Why 5	
Root Cause (Outflow)	Taper Machining checking not added in final inspection check sheet.

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

Type	Countermeasure Details	Responsibility	Target Date	Actual Date	Status
Outflow	1. Started 100% Visual inspection of taper machining at Final Stage. 2. OPL displayed at Final stage. 3. Quality alert is displayed at Final Stage.	Quality Supervisor	15/10/2023	11/10/2023	Completed
Occurance	Before loader dia was 48.0 mm & now increased by 59.0 mm as per part resting area.	Production Supervisor	15/10/2023	11/10/2023	Completed

9. Inspection Method After Customer Complaint

Change In Inspection System	Yes
Change Details	Started 100% Visual inspection of taper machining at Final Stage.
Inspection Method	Other
Other Inspection Method	Visual Inspection
Check Point at Final Inspection	Yes
Checking Freq.	100%
Sampling	No
Sample Size	1:1

10. Evidence of Countermeasure

Occurance (Before)	Before loader dia was 48.0 mm 567_Occurance_Before.jfif
Occurance (After)	now increased by 59.0 mm as per part resting area. 567_Occurance_After.jpg
Outflow (Before)	Taper Machining checking not added in final inspection check sheet. 567_Outflow_Before.pdf
Outflow (After)	1. Started 100% Visual inspection of taper machining at Final Stage. 2. OPL displayed at Final stage. 3. Quality alert is displayed at Final Stage. 567_Outflow_After.pdf

11. Horizontal Deployment

Horizontal Deployment Required	Yes
Applicable Machine / Model / Plant	CNC

12. Document Review

Documents	ControlPlan, PFMEA, InspCheckSheet
Specify Other Document	OPL,QUALITY ALERT

13. Effectiveness Of Action

Reviewed Quantity	1000
Reason for submission	OK

