Defect Details

NC No.	7000943533
NC Date	11/09/2023
NC Submission Date	
Part No.	520FG13402
Part Name	PRIMARY GEAR ASSEMBLY_ATUL AUTO
Supplier Name & Code	100985-IGL INDUSTRIES LIMITED
ETL Plant	1132-ETL K-226/1 TRANSMISSION
Defect Details	DIMETER UNDERSIZE-rusty issue & boss hight obs 24.03 mm

1. Problem Description

Defect Description	OPD found undersize up to 124.36~124.51 mm against 124.6±0.035 mm
Detection Stage	Receipt
Problem Severity	Fitment
NG Quantity	136
Is Defect Repeatative?	No
Defect Sketch / Photo	

Supplier Communication Details

Quality Head Email ID	qa@indsur.in
Plant Head/CEO Email ID	pcwadile@indsur.in
MD Email ID	

2. Stock Details & action taken for NG parts

Location	ETL End	Warehouse	Transit	Supplier FG	Supplier WIP	Total
Total Qty	90	0	0	57	0	147
Check Qty	87	0	0	56	0	143
NG Qty	3	0	0	1	0	4

Action taken on NG part

Scrap	4
Rework	0
Under Deviation	0

A	tainm		

Parts segregated at ET and IGL.

3. Process Flow

Process Flow Description

Blanks receipt - Hobbing - Shaving - Heat treatment - ID grinding - bush fitting - 0D & ID grinding - Teeth chamfering - Washing - Final inspection - oiling and packing - Dispatch

4. Process Details

Process / Operation	Grainding
Outsource	No
Machine / Cell	Granding Cell
Machine / Cell No.	01

5. Problem Analysis

Туре	Possible Cause	Fact Verification	Jud
Man	excess offset given by operator during correction	excess Offset given by operator during correction	0

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%

7. Root Cause Analysis (Occurance)

Why 1	Height & Dia Under size	
Why 2	Off-set not provided properly	
Why 3	More offset provided during wear tear of tools	
Why 4	Offset Interlock not Available on CNC machine	
Why 5		
Root Cause (Occurance)	excess offset provided after re-setting of wear tear tools	

Root Cause Analysis (Outflow)

Why 1	Defected parts Skipped to costumer
Why 2	Setting not ok part mixed up with OK part While inspection
Why 3	set up part handling procedure not available
Why 4	
Why 5	
Root Cause (Outflow)	Setting part handling procedure not Ava liable

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

	Type	Countermeasure Details	Responsibility	Target Date	Actual Date	Status
- 1	Type	Countermeasure Details	responsibility	Target Date	Actual Date	Status

Occurance	Offset interlock of 0.02mm provided on CNC machine	Santosh Mokal	06/12/2023	Pending	
Outflow	Set up part handling procedure made & desplayed Training given to operator through OPL	Santosh Mokal	10/12/2023	Pending	

9. Inspection Method After Customer Complaint

Change In Inspection System	Yes
Change Details	100% inspection started in place of sampling inspection.
Inspection Method	Gauge
Other Inspection Method	
Check Point at Final Inspection	Yes
Checking Freq.	100%
Sampling	No
Sample Size	100%

10. Evidance of Countermeasure

Occurance (Before)	Manual setting for offset 548_Occurance_Before.xlsx
Occurance (After)	Offset Inter lock system Provided in programme 548_Occurance_After.xlsx
Outflow (Before)	sampling insp 548_Outflow_Before.xlsx
Outflow (After)	100 % insp 548_Outflow_After.xlsx

11. Horizontal Deployment

Horizontal Deployment Required	Yes
Applicable Machine / Model / Plant	Supplier END all CNC Machines

12. Document Review

Documents	ControlPlan, WISOP, InspCheckSheet
Specify Other Document	no

13. Effectiveness Of Action

Reviewed Quantity	1000
Reason for submission	No Action updated