

Defect Details

NC No.	8000873488
NC Date	06/05/2024
NC Submission Date	
Part No.	F2LG07702B
Part Name	SEAT PIPE - J1C2 FF
Supplier Name & Code	100539-N P ENTERPRISES
ETL Plant	1117-ETL K-228/9 Suspension
Defect Details	NOT AS PER SPECIFICATION-TOTAL LENGTH UNDERSIZE

1. Problem Description

Defect Description	TOTAL LENGTH UNDERSIZE
Detection Stage	Inprocess
Problem Severity	Fitment
NG Quantity	4
Is Defect Repeatative?	Yes
Defect Sketch / Photo	

Supplier Communication Details

Quality Head Email ID	quality@npcindustries.in
Plant Head/CEO Email ID	anand@npcindustries.in
MD Email ID	ajay@npcindustries.in

2. Stock Details & action taken for NG parts

Location	ETL End	Warehouse	Transit	Supplier FG	Supplier WIP	Total
Total Qty	960	7120	1245	0	0	9325
Check Qty	960	0	1245	0	0	2205
NG Qty	5	0	0	0	0	5

Action taken on NG part

Scrap	5
Rework	0
Under Deviation	0

Containment Action

Segregation Done At ETL and NP end.

3. Process Flow

Process Flow Description

Process Flow Description 1.0 Raw Material 2.0 Cutting 3.0 Drawing 4.0 Head Formation 5.0 Rough Grinding 6.0 Punching 7.0 CNC Head Turning 8.0 CNC Boring & Facing 9.0 Tapping 10.0 Chamfering 11.0 ID Deburring 12.0 Finish Grinding 13.0 Final Inspection 14.0 Cleaning 15.0 Oiling 16.0 Packing &Dispatch.

4. Process Details

Process / Operation	CNC Boring
Outsource	No
Machine / Cell	CNC Boring & Chamfering
Machine / Cell No.	CNC SP1

5. Problem Analysis

Type	Possible Cause	Fact Verification	Jud
Method	Stopper design not adequate	Stopper design observed to be adequate	O
Method	Head Stopper loose	Head Stopper found to be tight	O
Man	Negligence of quality inspector at in process	Quality inspector found to be non negligent .	O
Man	Operator unaware	Operator found to be aware about the process	O
Method	Operator located part incorrectly during Facing operation	It was verified and observed that Operator is locating part incorrectly. This is resulting in extra	X
Method	NG part skipped at Final inspection	It was verified and observed that parts skipped during sampling at final inspection	X
Method	Burr on Stopper pin	No burr observed on Stopper pin	O
Material	Material Hardness more	Receiving inspection report verified . Material hardness found to be within limits. 35 – 55 HRB	O
Machine	Wrong Program run	After verification we found correct Program run as per std.	O

6. Inspection Method Analysis (Current)

Inspection Method	Gauge
Other Inspection Method	
Check Point at Final Inspection	Yes
Checking Freq.	Sampling
Sampling	No
Sample Size	As per std

7. Root Cause Analysis (Occurance)

Why 1	Total length undersize
Why 2	Facing operation done incorrectly
Why 3	Extra Facing done
Why 4	Operator located part incorrectly
Why 5	
Root Cause (Occurance)	Operator located part incorrectly

Root Cause Analysis (Outflow)

Why 1	Total length undersize
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Why 2	Could not be detected at Final Inspection
Why 3	Skipped in Sampling inspection
Why 4	
Why 5	
Root Cause (Outflow)	Skipped in Sampling inspection

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

Type	Countermeasure Details	Responsibility	Target Date	Actual Date	Status
Occurance	Quality alert to be displayed at CNC station	Mr. Prince	07/05/2024	06/05/2024	Completed
Occurance	Training to be provided to all CNC operators	Mr. MohinderPal	10/05/2024	08/05/2024	Completed
Occurance	Min level 3 operator will be allowed to operate CNC Facing Machine	Mr. Harwinder	08/05/2024	07/05/2024	Completed
Outflow	100% inspection with Length Snap Gauge to be done before dispatch	Mr. Vinay	07/05/2024	06/05/2024	Completed
Outflow	Length Snap Gauge to be provided at Godown for Sampling Inspection	Mr. Mohinder Pal	11/05/2024	09/05/2024	Completed
Occurance	Home position of insert to be changed from 22mm to 2.5mm	Mr. Harwinder	11/05/2024	10/05/2024	Completed
Outflow	Quality alert to be displayed at final inspection station	Mr. Princ	07/05/2024	06/05/2024	Completed

9. Inspection Method After Customer Complaint

Change In Inspection System	Yes
Change Details	100 % inspection to be start for total length
Inspection Method	Sp. Gauge
Other Inspection Method	
Check Point at Final Inspection	Yes
Checking Freq.	100%
Sampling	No
Sample Size	100%

10. Evidence of Countermeasure

Occurance (Before)	Home position of insert was 22mm 781_Occurance_Before.png
Occurance (After)	Home position of insert to be changed from 22mm to 2.5mm Training to be provided to all CNC operators 781_Occurance_After.png
Outflow (Before)	Sampling inspection was being conducted for length 781_Outflow_Before.png
Outflow (After)	100 % Inspection to be start with length gauge. 781_Outflow_After.jpg

11. Horizontal Deployment

Horizontal Deployment Required	Yes
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**Applicable Machine /
Model / Plant**

similar model

12. Document Review

Documents

ControlPlan, PFMEA, WISOP, AuditCheckSheet, InspCheckSheet

Specify Other Document

NO

13. Effectiveness Of Action

Reviewed Quantity

180

Reason for submission

OK