

## Defect Details

|                                 |   |
|---------------------------------|---|
| <b>NC No.</b>                   | 8000873531                                      |
| <b>NC Date</b>                  | 06/05/2024                                      |
| <b>NC Submission Date</b>       |   |
| <b>Part No.</b>                 | F2LG07102B                                      |
| <b>Part Name</b>                | SEAT PIPE - J1D                                 |
| <b>Supplier Name &amp; Code</b> | 101263-SINGLA PRECISION SCREWS                  |
| <b>ETL Plant</b>                | 1117-ETL K-228/9 Suspension                     |
| <b>Defect Details</b>           | NOT AS PER SPECIFICATION-TOTAL LENGTH UNDERSIZE |

## 1. Problem Description

|                               |                        |
|-------------------------------|------------------------|
| <b>Defect Description</b>     | TOTAL LENGTH UNDERSIZE |
| <b>Detection Stage</b>        | Inprocess              |
| <b>Problem Severity</b>       | Fitment                |
| <b>NG Quantity</b>            | 1                      |
| <b>Is Defect Repeatative?</b> | No                     |
| <b>Defect Sketch / Photo</b>  |                        |

## Supplier Communication Details

|                                |                             |
|--------------------------------|-----------------------------|
| <b>Quality Head Email ID</b>   | quality@singlaprecision.com |
| <b>Plant Head/CEO Email ID</b> | quality@singlaprecision.com |
| <b>MD Email ID</b>             | aditya@singlaprecision.com  |

## 2. Stock Details &amp; action taken for NG parts

| Location         | ETL End | Warehouse | Transit | Supplier FG | Supplier WIP | Total |
|------------------|---------|-----------|---------|-------------|--------------|-------|
| <b>Total Qty</b> | 600     | 0         | 0       | 0           | 0            | 600   |
| <b>Check Qty</b> | 600     | 0         | 0       | 0           | 0            | 600   |
| <b>NG Qty</b>    | 1       | 0         | 0       | 0           | 0            | 1     |

## Action taken on NG part

|                        |   |
|------------------------|---|
| <b>Scrap</b>           | 1 |
| <b>Rework</b>          | 0 |
| <b>Under Deviation</b> | 0 |

## Containment Action

STOCK CHECK 100% AT OUR END

## 3. Process Flow

**Process Flow Description**

1-RM 2- FORGING 3-PUNCHING -IST 4-ROUGH CLG 5-CNC-IST 6-CNC-II 7-PUNCHING -II 8-I.D CHIP REMOVE 9-REAMING IST 10-REAMING-IIIND 11-TAPPING 12-FINAL GRINDING 13-ALKLINE WASHING 14- FINAL INSPECTION 15 - PACKING

**4. Process Details**

|                            |                    |
|----------------------------|--------------------|
| <b>Process / Operation</b> | CNC -2ND OPERATION |
| <b>Outsource</b>           | No                 |
| <b>Machine / Cell</b>      | CNC-MACHINE        |
| <b>Machine / Cell No.</b>  | CNC -5             |

**5. Problem Analysis**

| Type     | Possible Cause                  | Fact Verification   | Jud |
|----------|---------------------------------|---|-----|
| Material | RM GRADE AND SIZE NOT OK        | VALIDATED AND FOUND OK  | O   |
| Man      | UNAWARENESS OF OPERATOR         | VALIDATION AND FOUND MACHINE OPERATOR ABOUT TOOL LIFE FRQ NOT AWARENESS   | X   |
| Tool     | TOOL MAY BE WEAR                | VALIDATE AND FOUND WEAROUT  | X   |
| Method   | INSPECTION METHOD NOT EFFECTIVE | VALIDATION AND FOUND TOTAL LENTH CHECKING INSTRUMENT NOT FOUND IN MACHINE | X   |
| Machine  | MACHINE PM NOT EFFECTIVE        | MACHINE AIR GUN NOT WORKING CHIPS NOT CLEAN ON COLLECT                    | X   |

**6. Inspection Method Analysis (Current)**

|  |            |
|--|------------|
| <b>Inspection Method</b>               | Instrument |
| <b>Other Inspection Method</b>         |            |
| <b>Check Point at Final Inspection</b> | Yes        |
| <b>Checking Freq.</b>                  | 100%       |
| <b>Sampling</b>                        | No         |
| <b>Sample Size</b>                     | NO         |

**7. Root Cause Analysis (Occurance)**

|                               |   |
|-------------------------------|---|
| <b>Why 1</b>                  | TOTAL LENGTH UNDERSIZE  |
| <b>Why 2</b>                  | Due to the presence of a chip in the collect chips the part was not properly set on place |
| <b>Why 3</b>                  | Operator Air gun not use  |
| <b>Why 4</b>                  | OPERATOR WI NOT ADD PART PER CYCLE AIR GUN USE IN COLLET                                  |
| <b>Why 5</b>                  | OPERATOR NOT AWRE THIS TYPE OF PROBLEM  |
| <b>Root Cause (Occurance)</b> | OPERATOR WI NOT ADD PART PER CYCLE AIR GUN USE IN COLLET                                  |

**Root Cause Analysis (Outflow)**

|              |   |
|--------------|---|
| <b>Why 1</b> | TOTAL LENGTH UNDERSIZE  |
| <b>Why 2</b> | INSPECTION PLAN WAS NOT EFFECTIVE                               |
| <b>Why 3</b> | AS PER SAMPLING PLAN PART CHECKING IN FINAL INSPECTION          |
| <b>Why 4</b> | LENGTH DIAL GAUGE NOT AVAILABLE IN MACHINE AND FINAL INSPECTION |
| <b>Why 5</b> | NG PART SKIPPED FROM INSPECTION AND MACHINE                     |

**Root Cause (Outflow)**

LENGTH DIAL GAUGE NOT AVAILABLE IN MACHINE AND FINAL INSPECTION

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

| Type      | Countermeasure Details                                    | Responsibility   | Target Date | Actual Date | Status    |
|-----------|---|------------------|-------------|-------------|-----------|
| Outflow   | DIAL LENGTH GAUGE PROVIDE TO MACHINE AND FINAL INSPECTION | MR GANESH MAURYA | 09/05/2024  | 09/05/2024  | Completed |
| Occurance | OPERATOR WI NOT ADD PART PER CYCLE AIR GUN USE IN COLLET  | ASHISH SINGH     | 09/05/2024  | 09/05/2024  | Completed |

## 9. Inspection Method After Customer Complaint

|  |   |
|--|---|
| <b>Change In Inspection System</b>     | Yes   |
| <b>Change Details</b>                  | DIAL LENGTH GAUGE PROVIDE TO MACHINE AND FINAL INSPECTION |
| <b>Inspection Method</b>               | Sp. Gauge   |
| <b>Other Inspection Method</b>         |   |
| <b>Check Point at Final Inspection</b> | Yes   |
| <b>Checking Freq.</b>                  | Sampling  |
| <b>Sampling</b>                        | No  |
| <b>Sample Size</b>                     | 50/1200   |

## 10. Evidence of Countermeasure

|                           |   |
|---------------------------|---|
| <b>Occurance (Before)</b> | OPERATOR WI NOT ADD PART PER CYCLE AIR GUN USE IN COLLET<br><a href="#">784_Occurance_Before.xlsx</a> |
| <b>Occurance (After)</b>  | OPERATOR WI ADD PART PER CYCLE AIR GUN USE IN COLLET<br><a href="#">784_Occurance_After.xlsx</a>      |
| <b>Outflow (Before)</b>   | Gauge not implements<br><a href="#">784_Outflow_Before.xlsx</a>                                       |
| <b>Outflow (After)</b>    | 100% gauge implements<br><a href="#">784_Outflow_After.xlsx</a>                                       |

## 11. Horizontal Deployment

|   |                       |
|---|-----------------------|
| <b>Horizontal Deployment Required</b>     | Yes                   |
| <b>Applicable Machine / Model / Plant</b> | CNC -05 PLANT NO -177 |

## 12. Document Review

|                               |                           |
|-------------------------------|---------------------------|
| <b>Documents</b>              | PokayokeCheckSheet, PFMEA |
| <b>Specify Other Document</b> | NO                        |

## 13. Effectiveness Of Action

|                          |     |
|--------------------------|-----|
| <b>Reviewed Quantity</b> | 100 |
|--------------------------|-----|

**Reason for submission**

Due to the presence of a chip in the collect chips the part was not properly set on place - Use pokayoke or interlocking like- 1. Seat check pokayoke required to ensure perfect seating/ resting of part 2. Provision of coolant flow with 5 bar pressure interlock with machine cycle. 3. Share pokayoke details