Defect Details

NC No.	8000802401
NC Date	31/08/2022
NC Submission Date	
Part No.	S2HT11807B
Part Name	OUTER SPRING _B104 E
Supplier Name & Code	101225-HELICAL SPRINGS
ETL Plant	1118-ETL E-92,93 Suspension
Defect Details	POWDER COATING NOT OK-P.COATING ROUGHESS&SHSDE VERACTION

1. Problem Description

Defect Description	Powder coating Uncover & shade variation due to Over backing
Detection Stage	Receipt
Problem Severity	Aesthetic
NG Quantity	190
Is Defect Repeatative?	Yes
Defect Sketch / Photo	

Supplier Communication Details

Quality Head Email ID	ravindra@helicalsprings.in
Plant Head/CEO Email ID	shaikhmoin@helicalsprings.in
MD Email ID	ataneja@helicalsprings.in

2. Stock Details & action taken for NG parts

Location	ETL End	Warehouse	Transit	Supplier FG	Supplier WIP	Total
Total Qty	1500	0	0	0	2000	3500
Check Qty	1500	0	0	0	2000	3500
NG Qty	190	0	0	0	0	190

Action taken on NG part

Scrap	0
Rework	190
Under Deviation	0

Containment Action

Check all material ETL end & helical end.

3. Process Flow

Process Flow Description

Raw Material Receipt & Inspection > Coiling > Stress Relieving > End Grinding > Shot Peening > Scragging > ID, Length & Angle checking > Surface Finish-Powder Coating > Final Inspection / PDI > Packing > Dispatch

4. Process Details

Process / Operation	Powder Coating
Outsource	No
Machine / Cell	NA
Machine / Cell No.	NA

5. Problem Analysis

Туре	Possible Cause	Fact Verification	Jud
Machine	Machine check Sheet not followed	CLIT verified found Ok	0
Method	Improper Material handling	Material handling done as per process verified found ok	0
Man	unskilled Operator	Skill matrix checked found ok	0
Material	Material Grade	RMTC verified found ok	0

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	1000/19

7. Root Cause Analysis (Occurance)

Why 1	Powder Coating Shade Varication
Why 2	Imbalance mixing ratio of fresh & recycle powder
Why 3	
Why 4	
Why 5	
Root Cause (Occurance)	Imbalance mixing ratio of fresh & recycle powder

Root Cause Analysis (Outflow)

Why 1	Powder Coating Shade varicaton
Why 2	PDIR done sampling basis
Why 3	Not Detect in sampling
Why 4	
Why 5	
Root Cause (Outflow)	Not Detect in sampling

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

Туре	Countermeasure Details	Responsibility	Target Date	Actual Date	Status
Occurance	Mixing ratio of fresh & recycle powder defined: 80 - 20 %	Mr. Narayan Shedute	30/09/2022	14/09/2022	Completed
Outflow	Master samples & panels made	Mr.Anuj Shelke	30/09/2022	14/09/2022	Completed

9. Inspection Method After Customer Complaint

Change In Inspection System	Yes
Change Details	100% inspection done before dispatch.
Inspection Method	Other
Other Inspection Method	Visual Inspection
Check Point at Final Inspection	No
Checking Freq.	100%
Sampling	No
Sample Size	1000/25

10. Evidance of Countermeasure

Occurance (Before)	Mixing ratio of fresh & recycle powder was 70- 30 % 236_Occurance_Before.pdf
Occurance (After)	Mixing ratio of fresh & recycle powder defined: 80 - 20 % 236_Occurance_After.pdf
Outflow (Before)	Criteria was not defined for shade 236_Outflow_Before.pdf
Outflow (After)	Master samples & panels made 236_Outflow_After.pdf

11. Horizontal Deployment

Horizontal Deployment Required	No
Applicable Machine / Model / Plant	B104 Outer & B106 Big (Brass Gold Coated Part only.)

12. Document Review

Documents	WISOP
Specify Other Document	OPL

13. Effectiveness Of Action

Reviewed Quantity	1000
Reason for submission	No Defect reported