Defect Details

NC No.	7000939452
NC Date	23/08/2023
NC Submission Date	
Part No.	C3CE00201B
Part Name	CLUTCH SHAFT ASSLY
Supplier Name & Code	100264-SAI INDUSTRIES
ETL Plant	1132-ETL K-226/1 TRANSMISSION
Defect Details	CRACKS-flairing dia obs 4.26 & flange cracked

1. Problem Description

Defect Description	Crack observed at flaring dia -During Riveting
Detection Stage	Inprocess
Problem Severity	Function
NG Quantity	2
Is Defect Repeatative?	No
Defect Sketch / Photo	

Supplier Communication Details

Quality Head Email ID	info@sai-industries.com
Plant Head/CEO Email ID	info@sai-industries.com
MD Email ID	umesh.honap@gmail.com

2. Stock Details & action taken for NG parts

Location	ETL End	Warehouse	Transit	Supplier FG	Supplier WIP	Total
Total Qty	200	480	0	280	0	960
Check Qty	200	480	0	280	0	960
NG Qty	2	0	0	0	0	2

Action taken on NG part

Scrap	2
Rework	0
Under Deviation	0

Containment Action

In ETL stock verified 200 Nos. found 2 nos cracks in Assly line. In A`Bad Warehouse stock verified 480 Nos.found no any cracks . InSai Inhouse stock verified 288 Nos.found no anycracks . All riveting parameter checked found ok except rivet height. Clutch Flange Bend/Warpage above 0.30mm. CNC Facing operation all parameters found ok.

3. Process Flow

Process FI	ow Description
Rivetting	

4. Process Details

Process / Operation	Rivetting
Outsource	No
Machine / Cell	Assly
Machine / Cell No.	Rivetting

5. Problem Analysis

Туре	Possible Cause	Fact Verification	Jud
Material	Clutch Flange bend/warpage above 0.30mm or may be internal crack in casting.	Parallerity not ok observed.	0

6. Inspection Method Analysis (Current)

Inspection Method	Other
Other Inspection Method	Dial & Fixture
Check Point at Final Inspection	Yes
Checking Freq.	100%
Sampling	No
Sample Size	100%

7. Root Cause Analysis (Occurance)

Why 1	Why 1:-CRACKS-flairing dia obs 4.26 & flange cracked
Why 2	Why 2:- Rivetting operation, Rivet height uneven or excess.
Why 3	Why 3:- Clutch Flange parallerity above 0.30mm.
Why 4:- Clutch Flange bend/warpage above 0.30mm or may be internal crack in casting. Already informed to ETL time refer mail and rejection returned also.	
Why 5	
Root Cause (Occurance)	Clutch Flange bend/warpage above 0.30mm or may be internal crack in casting. Already informed to ETL time to time refer mail and rejection returned also.

Root Cause Analysis (Outflow)

Why 1	Why 1:-CRACKS-flairing dia obs 4.26 & flange cracked
Why 2	Why 2:- Not proper adreesed in 100% visual inspection.
Why 3	Why 3:- Not kept crack assly in rejection bin.
Why 4	why 4:- Cracks assly may be mix up in ok assly.
Why 5	
Root Cause (Outflow)	Cracks assly may be mix up in ok assly.

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

Туре	Countermeasure Details	Responsibility	Target Date	Actual Date	Status
Occurance	1) ETL will ensure defect free(without bend/warpage)clutch flange supplied to Sai. 2) Received all clutch flange segrrigate for parallerity and Only Ok flange used for assly. 3) For crack free parts rivet height to be increased by 0.20mm.i.e.within 0.70mm and ETL will give approval for increase the the same.	ETL and SAI	02/09/2023	02/10/2023	Completed
Outflow	2) After 100% visual inspection marked Blue dot as identification.	SAI	01/09/2023	01/09/2023	Completed
Outflow	Display Ok and Not ok photo in final/visual inspection stage.	SAI	01/09/2023		Completed

9. Inspection Method After Customer Complaint

Change In Inspection System	Yes
Change Details	Firewall inspection started.
Inspection Method	Other
Other Inspection Method	Visual
Check Point at Final Inspection	Yes
Checking Freq.	100%
Sampling	No
Sample Size	100%

10. Evidance of Countermeasure

Occurance (Before)	No Parameter in SOP 531_Occurance_Before.pdf
Occurance (After)	Add parameter in SOP 531_Occurance_After.pdf
Outflow (Before)	Not Display Photo 531_Outflow_Before.pdf
Outflow (After)	Display Photo 531_Outflow_After.pdf

11. Horizontal Deployment

Horizontal Deployment Required	Yes
Applicable Machine / Model / Plant	Clutch Shaft Assly BS III and BS VI PVPL

12. Document Review

Documents	WISOP
Specify Other Document	No

13. Effectiveness Of Action

Reviewed Quantity	1000	
Reason for submission	ОК	