Defect Details

NC No.	8000785226
NC Date	25/04/2022
NC Submission Date	
Part No.	F2FA15933M
Part Name	FORK PIPE MACHINED (K19 DRUM FF)
Supplier Name & Code	100634-TATA STEEL LIMITED
ETL Plant	1126-ETL Pantnagar
Defect Details	CHAMFER NOT DONE-WRONG CHAMFER IDENTIFICATION -207 NOS.

1. Problem Description

Defect Description	Ring mark/step over identification marking on K-19 fork pipe
Detection Stage	Inprocess
Problem Severity	Aesthetic
NG Quantity	207
Is Defect Repeatative?	No
Defect Sketch / Photo	

Supplier Communication Details

Quality Head Email ID	bipldholpur@gmail.com
Plant Head/CEO Email ID	anubhav.pandey@tatasteel.com
MD Email ID	Praveens@tatasteel.com

2. Stock Details & action taken for NG parts

Location	ETL End	Warehouse	Transit	Supplier FG	Supplier WIP	Total
Total Qty	500	500	0	0	0	1000
Check Qty	500	500	0	0	0	1000
NG Qty	207	60	0	0	0	267

Action taken on NG part

Scrap	267
Rework	0
Under Deviation	0

Containment Action

Supply the next lot only after 100% inspection

3. Process Flow

Process Flow Description

CNC 1st setup (Threading) - 13x1.5° Chamfer Opertaion

4. Process Details

Process / Operation	CNC Turning
Outsource	No
Machine / Cell	Macpower
Machine / Cell No.	3

5. Problem Analysis

Туре	Possible Cause	Fact Verification	Jud
Method	Improper chamfer or angle in dimension 13x1.5°	In dimension 13x1.5°, ring mark/step up mark may generate at the end of chamfer due to lower angle	Х
Man	Untrained Operator/Inspector	Operator/Inspector not fully aware if this is visible after Grinding operation	Х
Material	No probable root cause related to material	Input material is as per specification	0
Machine	No probable root cause related to machine	Machine operating as per given program	0

6. Inspection Method Analysis (Current)

Inspection Method	Other
Other Inspection Method	Visual
Check Point at Final Inspection	Yes
Checking Freq.	Sampling
Sampling	No
Sample Size	5

7. Root Cause Analysis (Occurance)

Why 1	Ring mark/step mark visible after grinding process
Why 2	Step mark generate during chamfer operation 13x1.5°
Why 3	Due to lower angle i.e. 1.5°
Why 4	
Why 5	
Root Cause (Occurance)	Due to lower angle i.e. 1.5°

Root Cause Analysis (Outflow)

Why 1	Ring mark/step mark visible after grinding process
Why 2	Not detected during in-house inspection
Why 3	Not aware if this is visible after grinding process
Why 4	
Why 5	
Root Cause (Outflow)	Not aware if this is visible after grinding process

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

Туре	Countermeasure Details	Responsibility	Target Date	Actual Date	Status
Outflow	100 % Visual inspection for Ring/step mark	Pankaj	29/05/2022	29/04/2022	Completed
Occurance	After sample submission and further approval from ETL QA, dimension 13x1.5° changed to 13x1°55′	Pankaj	29/04/2022	29/04/2022	Completed

9. Inspection Method After Customer Complaint

Change In Inspection System	Yes
Change Details	100%
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)	Dimension 13x1.5° 74_Occurance_Before.pdf
Occurance (After)	Dimension 13x1°55` 74_Occurance_After.png
Outflow (Before)	Inspection not done for Ring/Step mark 74_Outflow_Before.jpg
Outflow (After)	100 % Visual inspection for Ring/Step mark 74_Outflow_After.pdf

11. Horizontal Deployment

Horizontal Deployment Required	Yes
Applicable Machine / Model / Plant	K19 and K1 UG

12. Document Review

Documents	Drawing
Specify Other Document	NA NA

13. Effectiveness Of Action

Reviewed Quantity	1
Reason for submission	ок

