MANUFACTURING QUALITY INTELLIGENCE DASHBOARD : ROHIT GILL

198K
Total Production

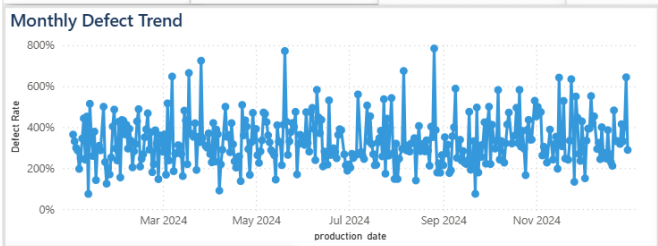
6652
Total Defect

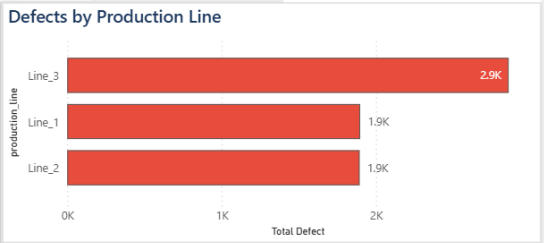
335.45%
Defect Rate

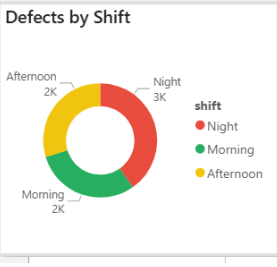
3.3M
Total Cost Defect

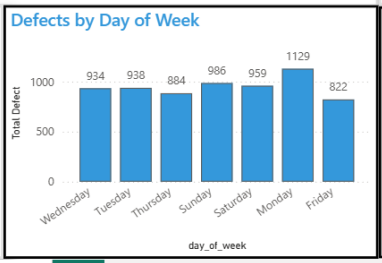
production_date
02-01-2024
31-12-2024

production_line
All









Machines Needing Attention

machine_id	Total Defect	Defect Rate
M001	784	294.83%
M002	603	334.42%
M003	632	289.92%
M004	623	298.67%
M005	569	288.63%
M006	855	329.80%
M007	834	382.64%
M008	899	392.34%
Total	**6652**	**335.45%**

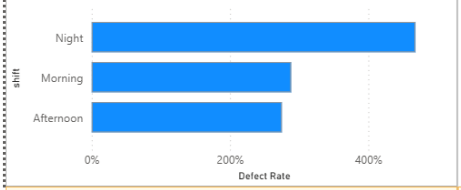
ROOT CAUSE ANALYSIS - IDENTIFYING DEFECT PATTERNS : ROHIT GILL

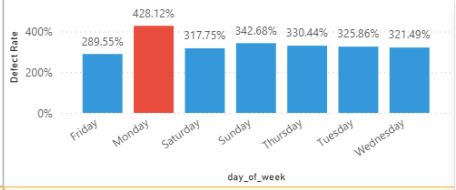
Worst Shift: NIGHT
4.2% Defect Rate (+40% vs Morning)

Worst Line: LINE 3
4.1% Defect Rate (2x vs Line 1)

Worst Day: MONDAY
3.8% Defect Rate (+25% vs Average)

production_line
All

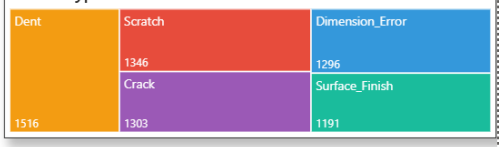




production_date
02-01-2024
31-12-2024

INSIGHT: Night shift has 40% higher defect rate PROBABLE CAUSES: • Operator fatigue • Reduced supervision • Poor lighting conditions RECOMMENDATION: • Add quality checkpoints at midnight • Improve lighting in production area • Consider supervisor rotation

INSIGHT: Monday defects are 25% higher than average PROBABLE CAUSES: • Equipment calibration drift over weekend • Operators readjusting after 2 days off • Machine warm-up issues RECOMMENDATION: • Implement Monday morning calibration protocol • Start production 30 mins later for equipment check •

Machine Performance Analysis

machine_id	Total Defect	Defect Rate	Machine Status
M009	853	412.62%	MAINTENANCE REQUIRED
M008	899	392.34%	MONITOR CLOSELY
M007	834	382.64%	MONITOR CLOSELY
M002	603	334.42%	MONITOR CLOSELY
Total	**6652**	**335.45%**	**MONITOR CLOSELY**