



KAIZEN IDEA – SHEET

Activity	KK	JH	QM	PM	SHE	OTPM	DM	ET
Loss No./ Step	●							
Result Area		P	Q	●	D	S	M	

Company Logo

 Company name:
 Asian Paints (I) Ltd.

Plant: : Bhandup

Machine: Twin Shaft disperser (TSD)

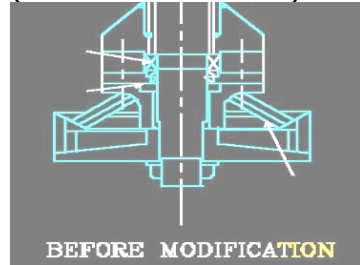
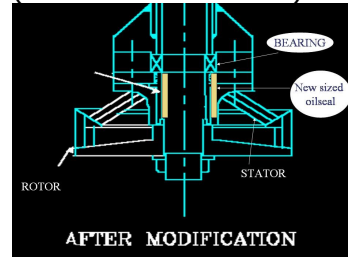
Kaizen Theme: Cost of Repairing

Idea: Fixing of S.S.Sleeve on shaft of TSD

Problem/Present Status : (In Words)

Coaxial slow speed and high speed drive provided with high speeds running at 1200 rpm speeds.
 Bottom bearing - a vital part for support of Stator - rotor assembly at high grinding speeds to maintain required gaps between stator - rotor
 Frequent wear out of high speed shaft at bottom bearing location due to abrasion of oil seal resulting in downtime of TSD' s and recurring repairs and spares cost.
 (Illustration with Sketch)

Countermeasure : SS sleeve as protecting device for shaft and bearing
Investment - Rs.2500 per sleeve.
Practicability - Can be used for all TSD's. Fits by threads on the shaft. Sleeve is hardchromed to 63 Rockwell by Electrolysis process hence failure problems very rare. Replacement of only sleeve instead of shaft overhaul and bearing replacement. Same sleeve can be reconditioned.
 (Illustration with Sketch)



Bench mark: Zero Break down

Target: Reliability of TSD (> 98 % uptime)

Kaizen start: 12.11.2004

Kaizen Finish: 30.11.2004

Team Members

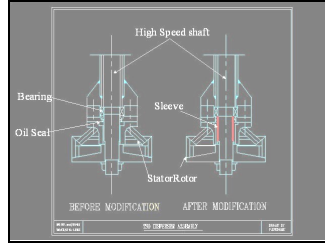
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Benefits:

- Reduction in repairs and spares cost to the tune of @ Rs. 1.5 lacs annually
- Reduction in OT's for meeting heavy production volumes
- Diversion of skilled manpower for value added maintenance activities.
- Reliability of operation of TSD's

Analysis:
 Shaft is rotating in unbalanced way
 Bearing is damaged
 Paint enters the bearing
 Oil seal is damaged
 Wear & Tear will damage the oil seal

Results :
 Provision of SS hard chrome sleeve on the high speed shaft thereby eliminating shaft wear out and subsequent seepage of paint into bearing and damaging the same resulting into zero downtimes for TSD-B203 (SBP) and TSD-B103 (WBP)



(Illustration with Sketch)

Scope & plan for Horizontal Deployment

Sr no	M/c No.	Target date	Responsibility	Status
1	TSD- B201	15.02.2005	Piyush S.	Complete
2	TSD- B204	10.03.2005	Piyush S.	Complete
3	TSD- B101	10.12.2004	Piyush S.	Complete
4	TSD- B102	15.12.2004	Piyush S	Complete
5	TSD-B104	15.01.2005	Piyush S	Complete
6	TSD-B105	10.02.2005	Piyush S	Complete