

# SAM GUARD – Predictive Analytics for the Process Industry

## Failure Prediction and Predictive Monitoring



Closed Issues (8)

ID :	Section	Cause Type :	Cause Title :	Causing Elements	Causing Tags	Issue Date :	Close Date :	
			Dynamic separator RMS			2018-02-28 - 2019-0	2018-02-28 - 2019-0	
176	Raw mill department	External Suppliers	Dynamic separator RMS			10/12/2018 19:01:00	11/21/2018 15:53:43	<a href="#">View Resolution</a>
165	Raw mill department	Normal	Dynamic separator RMS			10/05/2018 00:13:00	10/10/2018 16:04:56	<a href="#">View Resolution</a>
102	Raw mill department	Other	Dynamic separator RMS			08/15/2018 15:31:00	08/29/2018 18:29:10	<a href="#">View Resolution</a>
98	Raw mill department	Bad Sensor	Dynamic separator RMS			08/14/2018 17:05:00	08/29/2018 17:36:04	<a href="#">View Resolution</a>
94	Raw mill department	Planned Maintenance	Dynamic separator RMS			08/10/2018 16:01:00	08/28/2018 14:18:51	<a href="#">View Resolution</a>
73	Raw mill department	Cause not found	Dynamic separator RMS			07/26/2018 21:01:00	08/15/2018 15:20:54	<a href="#">View Resolution</a>
54	Raw mill department	Cause not found	Dynamic separator RMS			07/10/2018 19:30:00	08/13/2018 10:54:46	<a href="#">View Resolution</a>
45	Raw mill department	Normal	Dynamic separator RMS			07/05/2018 21:14:00	07/25/2018 16:10:12	<a href="#">View Resolution</a>

## Cement Plant – Raw Mill Separator

### Problem

Broken tooth of dynamic separator raw mill #5 (See pictures).

### Problem Identified

System reported several issues related to the dynamic separator which were unclear to the team (see list of alerts on the left). Eventually, due to leakage ring maintenance, it was physically opened and a broken tooth was identified.

### How SAM GUARD helped?

SAM GUARD gave pinpointed alerts directing maintenance staff to the exact piece of equipment. Since the source of problem was not visible, with hard access and complexity it is categorized as “run to fail” equipment. Had the problem been ignored, in a matter of days, the motor would have been broken and production stopped for one to three days.

### Value

- Overlooked broken tooth was replaced. A significant damage to the raw mill dynamic separator was prevented.
- By fixing a small problem ahead of time, a greater problem causing shutdown and lost production was eliminated.
- €10 - 30K of damage prevented – 1 day production loss of this mill