CONVEYOR INSPECTION REPORT:

PRINCIPAL : Copper Mine
LOCATION : Antofagasta, Chile
WORK AREA : Management and Belts
REQUEST REPORT : Performance & Reliability
IDENTIFICATION SYSTEM : CV-111 BELT

Performance Summary:

Trial Start Date : 21/12/2012
Review Date : 19/03/2014
Total Operational Hours : 3456
Tons Per Hour over Belt : 18 000
Total TPH Conveyed : 62,208,000
Trial Rolls Installed : 9
Trial Rolls Still in Operation: 9

Purpose:

- Determine in situ the behavior expected by the manufacturers of the product.
- Installed rollers perform according to customers’ expectations.
- Detect any abnormalities in their operation systems.
CONVEYOR INSPECTION REPORT CONTINUED:

Application Background:

PRINCIPAL : Copper Mine
LOCATION : Antofagasta, Chile
WORK AREA : Download Crusher # 3
REQUEST REPORT : Performance & Reliability
IDENTIFICATION SYSTEM : CV-111 System
REASON FOR VISIT : Installation and Inspection of the idlers tested in the system.

General Conditions Operating System:

Belt speed : 2.8 m / s nominal.
Quantity Transported : 18,000 ton / hrs.

Density material
- Ton/m3 2.1 wt.
- Ton/m3 1.8 vol.

Belt Width : 3,150 mm

Material characteristics:

Material transported : Raw copper
Ore. Material Type : Abrasive.
% Fines present in the Material : No information.
% Moisture present : No information.
CONVEYOR INSPECTION REPORT CONTINUED:

Basic characteristics of the environment:

Ambient temperature : Temperature oscillates between 22 ° C / -20 ° C
Solar Radiation : No Information
Relative humidity : No information.
Precipitation : No information.

Roller Specifications:

Supplier : Lorbrand Composites. (Test)
Roller type : Composite
Dimensions : Nominal Ø219 mm. X 1,250 mm. CEMA E
: Nominal Ø219 mm. X 900 mm. CEMA E

SYSTEM OVERVIEW / COMMENTS:

The conveyor CV-111 it is from the crusher discharge # 3. This line carries the material and goes to the stock pile. In this, it is realized the test, with the 9 idlers, which are presented in this report.

The 9 units of composite idlers were installed on December 21 of 2012. Location at three meters from the output of the mailbox of the belt, with a temperature of 23 ° C.
CONVEYOR INSPECTION REPORT CONTINUED:

On inspection it was noted:

- The composite idlers were in good condition. No obvious damage could be seen.
- The shell of each of the Idlers appears to be in good condition.
- There is only the presence of dust on its surface.
- The bearings appear to be working well and they don't show obvious physical or audible signs of premature wear.
- The axes where the bearings are seated show no evidence of superficial corrosion.
- Personal maser, who installed the idlers, says they found it faster, easier and safer to install idlers mainly due to its weight reduction, which translates into safer handling.
Performance Summary:

After 3456hrs in operation, all composite rolls installed are in complete working order.

Weight reduction seen as critical Safety Feature.

Customer completely satisfied with performance to date.

Performance Trial and Appraisal ongoing.