Condition monitoring of cone crushers brings huge savings
A digital system issues maintenance-oriented warnings before standard DCS alarms

SITUATION
A mine using the Sandvik cone crusher with lubrication and hydraulic unit
- Air filter saturation
- Dust contamination into hydraulic unit
- Oil filter saturation by dust

SOLUTION
Asset Monitoring for lubrication and hydraulic unit
- Condition Monitoring System integrated to Control System
- Applicable to Sandvik cone crusher CTHS 660 and 440 models
- First alarm at pressure drop
- Second alarm at pressure equalization

SUCCESS
Production, repair and spare parts savings
- Avoided downtime of 72H (if parts available)
- Further savings on parts subjected to wear by dust contamination, man-hours to clean the system and change parts, parts logistic costs, if urgent

SCOPE OF DELIVERY
- ABB Ability™ Asset Vista Condition Monitoring for mining

BENEFITS
OPEX $500k
Availability 1%
Throughput/yield $9.6m

MINING, AMERICAS, 2018

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