



Mining Haul Truck Case Study

New Kit Replaces Filter Housing (SRG) Tube Bodies with Series 9000 on Large Rock Trucks

Summary: New adaptation kit allows SRG Filter Housing Tube Body Precleaners to be replaced by more efficient, lighter, no routine maintenance, Series 9000 precleaners. No filter blow outs, no filter maintenance between filter changes in 2000 hours of run time. Dramatically lower operating cost and significant increase in uptime.

Company Information	
Company Type:	Coal Mining
Location:	Colombia South America

Test Criteria				
What would constitute successful test completion?	Double current filter life			
Environment(s):	x	Humid	x	Dry Dust
		Muddy		Mixed Debris
	x	Heavy Debris		Snow
	x	Extreme Heat		Extreme Cold
Other Environment:				
Application:	x	Mining		Construction
		Agriculture		Forestry
		Waste Industry - Landfill		Waste Industry - Recycling
		Waste Industry - Transfer Station		
Other Application:				
Notes:				

Machine: Before OPTIMAX Installation	
Manufacturer:	Caterpillar
Model:	793B/C/D
Precleaning/Filtration Equipment Currently Installed:	Donaldson SRG Filter housing with Dona Tubes
Filter Changed when Level of Restriction Reaches:	25" of Water Column of Restriction
Primary Air Filter Replacement Interval:	1400
Secondary Air Filter Replacement Interval:	2500
Maintenance Includes Blowing Out Filter:	Yes, every 250 hours
Operator's Comments on Current Machine Performance:	Machine performs normally
Notes:	

OPTIMAX Installation	
OPTIMAX Installation Part Number:	IN0077-9004
Other Parts Used:	
Notes:	two of each part number

Performance Results

Test Period 1

Machine Hours:	72,091 - 41 test hours
Restriction Indicator Reading:	15
Filter Changed:	No
Operator's Comments:	No

Test Period 2

Machine Hours:	72,557 - 466 test hours
Restriction Indicator Reading:	20
Filter Changed:	No
Operator's Comments:	Machine runs no problem

Test Period 3

Machine Hours:	73,152.1 - 1061 test hours
Restriction Indicator Reading:	20
Filter Changed:	No
Operator's Comments:	Machine runs no problem

Test Period 4

Machine Hours:	73,818 - 1,727.2 test hours
Restriction Indicator Reading:	20
Filter Changed:	No
Operator's Comments:	Machine runs no problem

Testimonials

Job Title:	Mining maintenance management
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Comments on Product Performance:

"We've never seen filter life in our trucks like this, the goal was to reach 1400 hr but we got past 2000 hrs. on two of the trucks. The third truck got new filters by accident at 1700 hours. We have had no complaints about the machine's performance. We no longer need maintenance crews running around with power washers cleaning the precleaners boxes, we are in a really humid zone and the dust was turning into mud inside the boxes making them a lot more restrictive. "

Job Title:	Mining maintenance management
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Comments on Product Performance:

"Replacing the precleaning boxes was really expensive, with time they get clogged, rusted or beat up because of our operation and the problem is that you can't get in to clean them or repair them. This IN0077 is completely modular and if damage can be repaired quickly and inexpensively in the field with no need for a crane to get the hole air filter housing down"



Machine #3 in operation



Machine #2