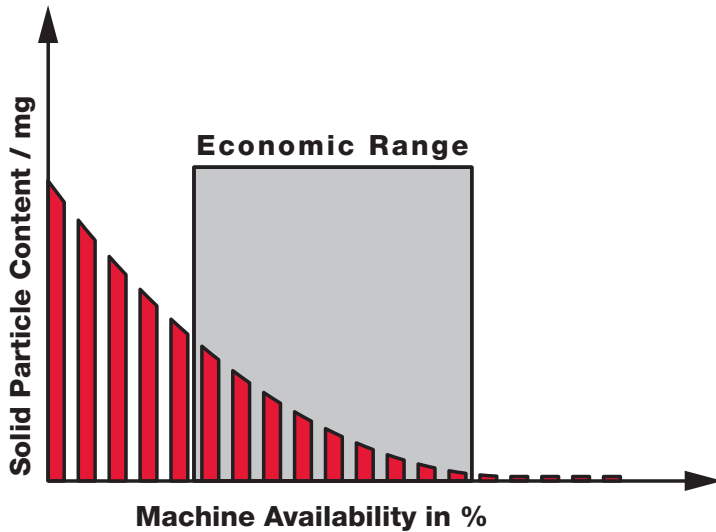# *Savings Realized by Proper Contamination Control*

The money invested in contamination control can easily be justified when the resulting machine availability increases significantly. The graph below illustrates that there is a range in which this investment really pays off.

Economic Range

Solid Particle Content / mg

Machine Availability in %

Try our automated savings calculator at:

www.HYDACusa.com

Savings Calculation Example

This example demonstrates how to calculate the potential savings that will be realized by implementing a proper fluid service program.

	Example	Your Data	
Number of Machines	50	**a** _____	
Operating Hours per year	5,000	**b** _____	
Current Availability	92%	**c** _____	
Downtime Costs per hour	$60	**d** _____	
Total Downtime Costs	$1,200,000	**e** _____	$(a \times b \times \frac{(100 - c)}{100} \times d)$

Downtime costs due to:

	Example	Your Data	
- mechanical/electrical failures (65%)	$780,000	**f** _____	**(e x .65)**
- hydraulic failures (35%) of which:	$420,000	**g** _____	**(e x .35)**
- 70% is due to the fluid	$294,000	**h** _____	**(g x .70)**
- 30% is caused by other faults	$126,000	**i** _____	**(g x .30)**
HYDAC Fluid Service can return 90% of the fluid related downtime costs	**$264,600**	**j** _____	**(h x .90)**