

Total Cleanliness Control





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As part of our service capabilities and to ensure we maintain the highest level of cleanliness, we have laboratories in Kalgoorlie and Perth to assess the cleanliness of your oil.



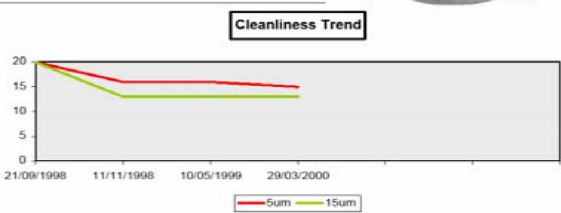
We support all our filtering and flushing with a Fluid Cleanliness Assessment, we can even sample your oil and provide you with a report on the status of your system

Why Use Filters!!!

To maintain a *target fluid cleanliness*

- Maximize Uptime
- Increase component reliability
- Reduce Maintenance
- Reduce Component Failures
- Save Money!

6/10/2006 CODES EXAMPLES2C7L

		Fluid Cleanliness Assessment																												
COMPANY :	BHP IRON ORE	CONTACT :																												
SITE :	NELSON POINT	SAMPLE DATE :	29TH MARCH 2000																											
EQUIPMENT :	CRUSHER C7	SAMPLE No :																												
SYSTEM :	LUBE	FLUID :																												
SAMPLE POINT :		FILTRATION :																												
ESTIMATED ISO CODE :	15/13	PREPARED BY :	G.THOMAS																											
VOLUME ANALYZED :	100ML	CHECKED BY :	W.CHILDS																											
METHOD :	MICROSCOPE / COMPARATOR																													
COMMENTS :																														
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<p>Cleanliness Trend</p> 																														

Reasons for Fluid Sampling

Monitoring the Condition of the Fluid:
Physical and chemical properties of fluid (aging)

Monitoring Fluid Contamination:
Fluid and machine destructive contaminants

Monitoring the Condition of the Machine:
Presence and identification of wear particles
From normal wear, incipient faults, catastrophic failures
For problem diagnosis, failure prognosis & post mortem



Frequency of Sampling

Sampling frequency is dependent on a range of variables:

- Machine criticality
- Operating temperature
- Likelihood of contamination
- Rate of deterioration
- Machine age
- Safety considerations





Typical frequencies of sampling

Machine Type - System Type	Frequency - Intervals
Diesel engines – mobile	250 hours or 20,000 km
Diesel engines – stationary	1000 hours
Transmission	500 hours or 40,000 km
Differentials, final drives	1000 hours or 80,000 km
Hydraulics - mobile equipment	500 hours or 40,000 km
Gas turbines – industrial	500 hours
Steam turbines	500 hours
Air/gas compressors	500 hours
Chillers	500 hours
Gear boxes - high speed/duty	500 hours or monthly
Gear boxes - low speed duty	1000 hours or 2 monthly
Bearings - journal and rolling element	500 hours or monthly
Bearings - grease packed	3 monthly
Aviation reciprocating engines	25 - 50 hours
Aviation gas turbines	100 hours
Aviation gear boxes	100 - 200 hours
Aviation hydraulics	100 - 200 hours



***“Your Fluid Power, Filtration & Lubrication
Engineers.”***