



**FILTER  
TECHNOLOGY**

cleaner fluids mean better business

**CASE STUDY**



**Hydraulics**

Case No : 8 - 6 - 19

**Hydraulic Reservoir, Truck : Boral, Mt Thorley**



Lubetech Pty Ltd

**Oil Analysis Report**

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<i>Client</i>	<b>Filter Technology Australia Pty Ltd / New South Wales</b>		
<i>Contact</i>	Phillip Marheine	<i>Site</i>	Boral Mt Thorley
<i>Address</i>		<i>Unit ID/Name</i>	<b>Truck Hydraulics</b>
		<i>Manufacture/Model</i>	
<i>Telephone</i>	02 4932 9998	<i>Origin</i>	<b>Hydraulic Reservoir</b>
<i>Fax</i>	02 4932 9997	<i>Fuell/Oil Type</i>	

**Diagnosis:**

Oil and wear condition appear satisfactory. Significant improvement in wear metal levels and Particle Count. At 19/15 the Particle Count is at the upper moderate level. Further filtration is recommended. Continue to monitor.



	Sample Number	36807	36716							Indicative Levels	
	Date	27/09/2002	25/09/2002								
	Total Hours/Km										
	Hours/Km on Oil										
	Oil Changed	NO	NO								
	Oil Added										
Condition Tests	Fuel Dilution (%)										
	WT Solids (%)										
	Volume Water (%)	ND	ND							0.05	
	Water PPM										
	Viscosity @ 40C (cST)	64	66							>10%	
	TAN (mg/KOH/g)	0.85	0.81								
	TBN (mg/KOH/g)										
	ApH										
Wear Metals	PQ90 Index										
	Aluminum (Al)	1	6							15	
	Silicon (Si)	2	11							20	
	Tin (Sn)	<1	1							20	
	Iron (Fe)	7	50							25	
	Lead (Pb)	1	5							15	
	Copper (Cu)	6	14							25	
	Chromium (Cr)	<1	1							15	
	Sodium (Na)	1	1							80	
	Zinc (Zn)	459	503								
Cleanliness	Others										
	ISO4406	19/15	24/21							18/15	
	Gravi-Metric										
	>2 micron	8046	271789								
	>5 micron	2976	100497								
DR Ferrograph	>15 micron	318	10746								
	Contamination	Elevated	Very High								
	Total Count									60	
	Severity Index									46	
	Size Ratio									1.1	
	% Large Particles									30	
	Wear Types	Wear Types									
		Rubbing									
Fatigue											
Laminar											
Sliding											
Cutting											
Dark/Red Oxide											
Non-Ferrous											
Dirt/Sludge											