**Lube System, Jaques Crusher: Boral, Peats Ridge** 

## **Boral - Peats Ridge - Jaques 4F TX Crusher**

Boral Peats Ridge were approached by Filter Technology Australia in August 1999 to evaluate a JQ340 lube system on their Jaques TX Cone Crusher, the aim being to lower contaminants, extend oil drain periods and component life.



Oil drains were typically done on a six or twelve monthly basis depending on the rate of silicon ingression.



At the time of installation the oil was 80 hours old and was grey in appearance.

The system has now been installed for 31/2 years and serviced on a three monthly basis. Silicon ingress that was an issue when the system was installed has been controlled and sample 39665 done on 10/02/03 finds all wear metals at acceptable levels.



	Diagnosis: Oil and wear condition app Continue to monitor.	ear satisfactory.	Trend is stable.					O	K
	Sample Number	39665	38392	34419	32292	30928	29104	26742	Indicative
	Date	10/02/2003	28/11/2002	03/06/2002	01/03/2002	03/12/2001	27/08/2001	10/05/2001	Levels
	Total Hours/Km Hours/Km on Oil Oil Changed Oil Added	NO	NO	NO	NO	NO	NO	NO	
Condition Tosts	Fuel Dilution (%) WT Solids (%) Volume Water (%) Water PPM Viscosity @ 40C (cST) TAN (mg/KOH/g) TBN (mg/KOH/g) ApH PQ60 Index	ND 209 0.99	ND 216 0.68	ND 190 0.72	ND 203 0.81	ND 164 0.26	ND 230 0.78	ND 221 0.89	0.1 >10%
West Hotels	Aluminum (Al) Silicon (Si) Tin (Sn) Iron (Fe) Lead (Pb) Copper (Cu) Chromium (Cr) Sodium (Na)	1 2 4 6 6 19 1	1 <1 2 6 7 19 <1	<1 1 <1 4 4 17 <1	<1 1 6 3 5 18 <1	5 14 6 7 23 64 <1	<1 10 <1 4 4 17 2	<1 1 5 3 5 24 <1	15 40 20 180 20 180 10
	Zinc (Zn) Others	14	14	5	6	۰	,	- 1	
Classic	ISO4406 Gravi-Metric >2 micron >5 micron >15 micron	20/17 23150 8565 915	20/16 14417 5332 570	79854 71523 14236	24/21 306249 113203 12083				19/16
6	Contamination	310	Elevated	Very High	High				