



**FILTER
TECHNOLOGY**

cleaner fluids mean better business

CASE STUDY

Quarrying

Case No : 7 - 6 - 5

Oil Filtration : Karreman Brothers - Brisbane

Karreman Brothers - Brisbane

Karreman Brothers at Mt Cotton use Jaques crushers: J Cone, G50 and Gyracone. The Tooloolawah site operates a Jaques G50 crusher. The four crushers are fitted with JQ340 systems, the aim being to increase oil drain periods from six to twelve months. This target was easily achieved. Component life extension and machine availability were also improved.



Karreman's are building a new crushing plant and have specified FTA systems to be installed to the cone crushers before commissioning.



Lubetech Pty Ltd

Oil Analysis Report

PO Box 264, Salisbury, Queensland 4017, Australia
Phone: +61 7 3274 5297 Fax: +61 7 3274 5232

<i>Client</i>	Filter Technology Australia Pty Ltd / Queensland			<i>Site</i>	Karreman Quarry		
<i>Contact</i>	Ken Mortensen			<i>Unit ID/Name</i>	Crusher 1002A/L / Crusher		
<i>Address</i>	31 Barakula Court			<i>Manufacturer/Model</i>	Jaques / J Cone		
	Cedar Creek Qld 4207			<i>Origin</i>	Gearbox		
<i>Telephone</i>	07 55464256			<i>Fuell/Oil Type</i>	EPX 80W90		
<i>Fax</i>	07 5546 4214						

Diagnosis:

Oil and wear condition appear satisfactory. Levels are stable. Particle Count remains stable with only a slight increase.
Continue to monitor.



	39569	37589	35180	33365	31566	29839	28086	Indicative Levels
Sample Number	39569	37589	35180	33365	31566	29839	28086	
Date	03/02/2003	25/10/2002	16/07/2002	22/04/2002	18/01/2002	15/10/2001	25/07/2001	
Total Hours/Km								
Hours/Km on Oil								
Oil Changed	NO	NO	NO	NO	NO	NO	NO	
Oil Added	Nil	Nil					Nil	
Condition Tests								
Fuel Dilution (%)								
WT Solids (%)								
Volume Water (%)	ND	ND	ND	ND	ND	ND	ND	0.1
Water PPM								
Viscosity @ 40C (cST)	142	127	131	140	124	159	135	>10%
TAN (mg/KOH/g)	1.63	1.7	1.6	1.38	1.55	2.0	0.98	
TBN (mg/KOH/g)								
ApH								
PQ90 Index				+1			+20	
Wear Metals								
Aluminum (Al)	1	0	<1	<1	<1	<1	<1	15
Silicon (Si)	2	2	<1	<1	<1	3	2	40
Tin (Sn)	8	17	20	3	5	5	6	20
Iron (Fe)	19	28	18	<1	12	8	8	180
Lead (Pb)	7	12	9	3	4	3	<1	20
Copper (Cu)	41	60	61	10	18	12	11	180
Chromium (Cr)	1	0	<1	<1	<1	2	<1	10
Sodium (Na)	4	2	<1	<1	<1	<1	<1	80
Zinc (Zn)	9	11	9					
Others								
Cleanliness								
ISO4406	20/16	19/16	17/14	15/12	15/12	18/15	17/13	19/16
Gravi-Metric								
>2 micron	14113	8473	3161	481	452	7054	1973	
>5 micron	5220	3134	1169	259	260	1967	729	
>15 micron	558	335	124	15	31	256	77	
Contamination	Elevated	Elevated	Moderate	Low	Low	Moderate	Moderate	