Oil Filtration, Kawasaki Cone Crusher : Concrete Recyclers

Concrete Recyclers - Kawasaki 1350 Cone Crusher

In February 2001 Concrete Recyclers fitted a JQ340 lube system to their Kawasaki 1350 Cone Crusher in order to overcome silicon ingression and higher than normal operating temperatures due to increased viscosity (see sample 25387).

Oil drains have been increased from 600 hours to 3000 hours servicing has been done on a three monthly basis, due to the success of this crusher system all the crushers operated by CR have now been fitted with FTAs units, they have now installed FTAs bypassed engine oil filters onto their loaders and excavators increasing their oil drains from 250 hours to 500 hours.

LUBE TECH

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Oil Analysis Report

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Client	Filter Technology Australia Pty Ltd / New South Wales	Site	Granville
Contact	Phillip Marheine	Unit ID/Name	OAO162EG / Concrete recyclers
Address		Manufacture/Model	Kawasaki Crusher / 1350
Telephone	02 4932 9998	Origin	Sump
Fax	02 4932 9997	Fuel/Oil Type	Machine Oil 150

Diagnosis:
Oil and wear condition appear satisfactory. Visible particles in the oil bottle which are affecting the Particle Count reading. Particles do not appear to be metallic in nature. Continue to monitor.

OK

	Sample Number	34410	33067	30836	29135	26877	26258	25387	Indicative Levels
	Date	03/06/2002	01/04/2002	03/12/2001	28/08/2001	16/05/2001	10/04/2001	22/02/2001	
	Total Hours/Km								
	Hours/Km on Oil			2450			1200		
	Oil Changed	NO	NO	NO	NO	NO	NO	NO	
	Oil Added								
Condition Tests	Fuel Dilution (%)								
	WT Solids (%)								
	Volume Water (%)	ND	ND	ND	ND	ND	ND	ND	0.1
	Water PPM								
	Viscosity @ 40C (cST)	142	152	148	157	159	162	170	>10%
	TAN (mg/KOH/g)	0.28	0.30	0.21	0.13	0.20	0.20	0.10	
	TBN (mg/KOH/g)								
	ApH								
	PQ90 Index		+1	+4		+3	+0	+3	
Wear Metals	Aluminum (Al)	2	<1	<1	<1	<1	<1	<1	15
	Silicon (Si)	7	7	12	9	7	10	16	40
	Tin (Sn)	<1	<1	5	<1	8	5	6	20
	Iron (Fe)	8	3	5	5	3	4	3	180
	Lead (Pb)	19	23	20	18	18	27	16	20
	Copper (Cu)	74	59	70	64	60	25	59	180
	Chromium (Cr)	<1	<1	3	2	1	<1	<1	10
	Sodium (Na)	<1	<1	5	5	<1	3	<1	80
	Zinc (Zn)	16							
	Others								
Cleanliness	ISO4406	22/18	21/18	>24/21					19/16
	Gravi-Metric								
	>2 micron	75423	48973						
	>5 micron	24568	18102						
	>15 micron	1801	1932						
	Contamination	High	Elevated						
DR Ferrorgraph	Total Count								350
	Severity Index								95
	Size Ratio								4
	% Large Particles								70
	Wear Types: Rubbing								
	Fatigue								
	Laminar								
	Sliding								
	Cutting								
	Dark/Red Oxide								
	Non-Ferrous								
	Dirt/Sludge								
		OK	OK	WARNING	OK	OK	OK	OK	