



CONDITION	MACHINE DETAILS	COMMENTS & RECOMMENDATIONS
 MONITOR	Plant ID: 8371 Engine Cmpt: Perittos .4B4 Date: 29 May 10 SMR: 1241	Slightly elevated soot levels. Check air filter condition. Report Number: 557,397
 OKAY	Plant ID: 8371 Engine Cmpt: Perittos .4B4 Date: 30 May 10 SMR: 1250	Low hrs (9) - Results within acceptable limits. Continue with regular maintenance and monitoring. Report Number: 557,398

Site
 Attention To:
 Machine:
 Sample Location:
 Oil Type:

SV Beatrix
 JEFF STANDER
 8371 Engine
 Perittos .4B4
 SAE 40



4 Walter Street \ PO Box 490
 Singleton NSW 2330
 Phone: (02) 6571-1444
 Facsimile : (02) 6571-4433



Sample Date
 Analysis Report No.
 Service Meter Reading
 Top Up
 Oil Hrs
 Oil Changed?

						29-May-10
	-	-	-	-	-	557,397
	-	-	-	-	-	1241hrs
	-	-	-	-	-	-
	-	-	-	-	-	150
						Yes

Wear Metals

	Limit	ppm	ppm	ppm	ppm	ppm	ppm
lead	10						1
iron	80						47
aluminium	30						6
copper	35						6
chromium	10						2
tin	10						0
nickel	10						0
silver							0
titanium							0

Contaminants

	Limit	ppm	ppm	ppm	ppm	ppm	ppm
silicon	15						5
sodium	25						5
vanadium							1

Oil Additives

	Limit	ppm	ppm	ppm	ppm	ppm	ppm
magnesium							1038
zinc							1207
molybdenum							30
calcium							437
phosphorous							1563
boron							68
barium							0

Physical Tests

TBN							8.50
TAN							3.81
fuel dilution %	2						0
water %	0.1						< 0.1
viscosity index							104
visc @ 100oC - Cst	15	-	-	-	-	-	16.17
visc @ 40oC - Cst	150						162

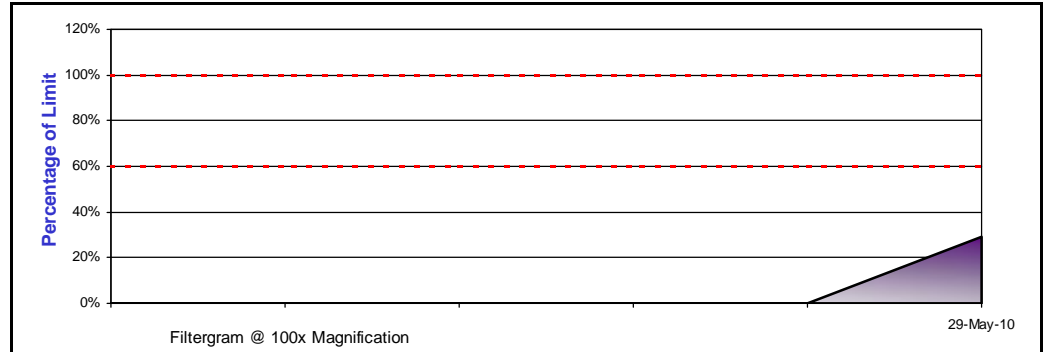
FTIR Analysis

soot - abs	70						34
glycol%							0
water ppm							0
oxidation - abs	30						5.00
nitration - abs	30						3.00
sulphation - abs	30						7.00

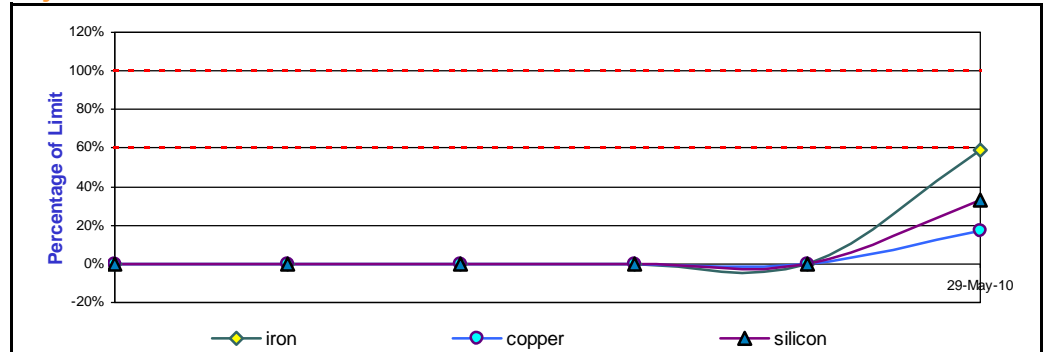
Particle Analysis

particle count in 1ml							0
ISO-4406 6um \ 14um	-/-	-/-	-/-	-/-	-/-	-/-	-/-
PQ90 Fe - mg \ ltr	38						11

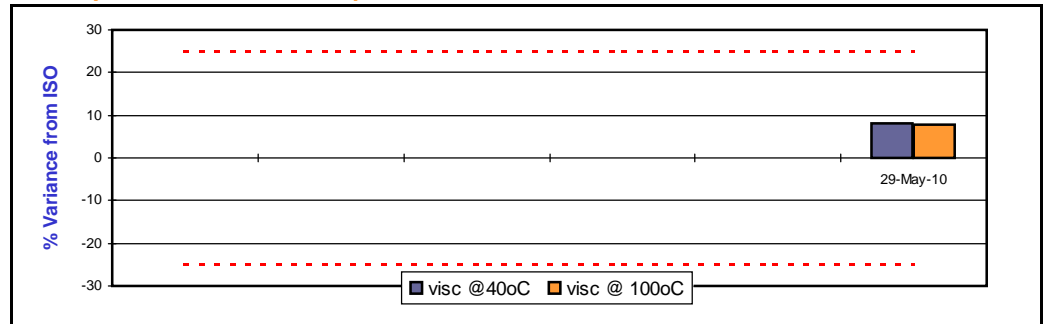
PQ - Ferrous Wear Debris (Fe mg \ ltr)



Major Small Particle Element Trends



Viscosity Condition From New Oil Specification



Comments & Recommendation

Slightly elevated soot levels. Check air filter condition.

Site
 Attention To:
 Machine:
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 Oil Type:

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Sample Date
 Analysis Report No.
 Service Meter Reading
 Top Up
 Oil Hrs
 Oil Changed?

					29-May-10	30-May-10
					557,397	557,398
					1241hrs	1250hrs
					-	-
					150	9
					Yes	No

Wear Metals

	Limit	ppm	ppm	ppm	ppm	ppm	ppm
lead	10					1	0
iron	80					47	5
aluminium	30					6	1
copper	35					6	1
chromium	10					2	0
tin	10					0	0
nickel	10					0	0
silver						0	0
titanium						0	0

Contaminants

	Limit	ppm	ppm	ppm	ppm	ppm	ppm
silicon	15					5	7
sodium	25					5	1
vanadium						1	1

Oil Additives

	Limit	ppm	ppm	ppm	ppm	ppm	ppm
magnesium						1038	1029
zinc						1207	1320
molybdenum						30	25
calcium						437	337
phosphorous						1563	1550
boron						68	78
barium						0	0

Physical Tests

TBN						8.50	9.00
TAN						3.81	2.27
fuel dilution %	2					0	0
water %	0.1					< 0.1	< 0.1
viscosity index						104	105
visc @ 100oC - Cst	15	-	-	-	-	16.17	15.70
visc @ 40oC - Cst	150					162	153

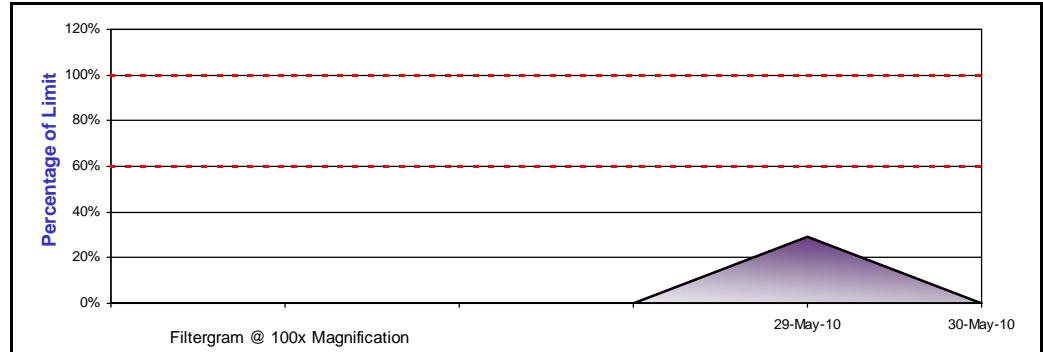
FTIR Analysis

soot - abs	70					34	2
glycol%						0	0
water ppm						0	0
oxidation - abs	30					5.00	4.00
nitration - abs	30					3.00	0
sulphation - abs	30					7.00	3.00

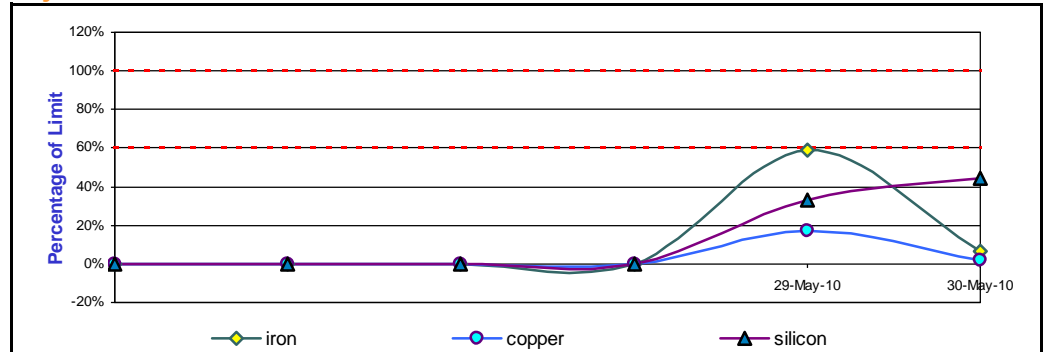
Particle Analysis

particle count in 1ml						0	0
ISO-4406 6um \ 14um	-/-	-/-	-/-	-/-	-/-	-/-	-/-
PQ90 Fe - mg \ ltr	38					11	0

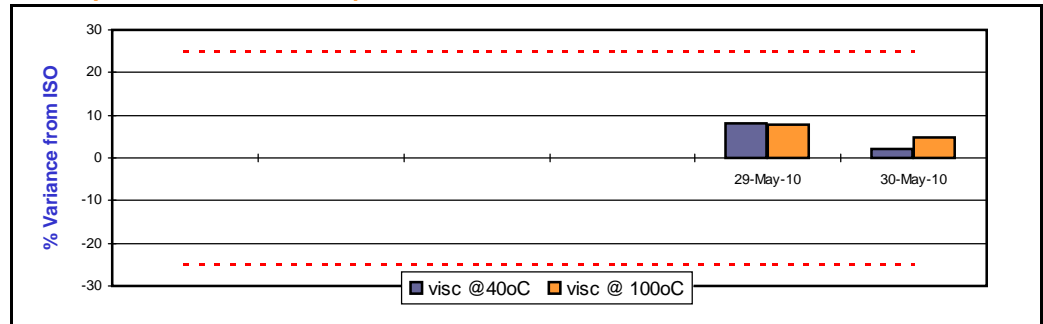
PQ - Ferrous Wear Debris (Fe mg \ ltr)



Major Small Particle Element Trends



Viscosity Condition From New Oil Specification



Comments & Recommendation

Low hrs (9) - Results within acceptable limits. Continue with regular maintenance and monitoring.