

TECHNICAL ADVANCE FOR ECONOMIC GAIN

Microanalysis Report: 209,600

Client: Demonstration
Address: Demonstration
Machine: 373 Dozer **ID No:** 373
Oil Name: Multi 15W40
Visc@40°C: 84 **Visc@100°C:** 0 **TBN:** 8

Physical Tests

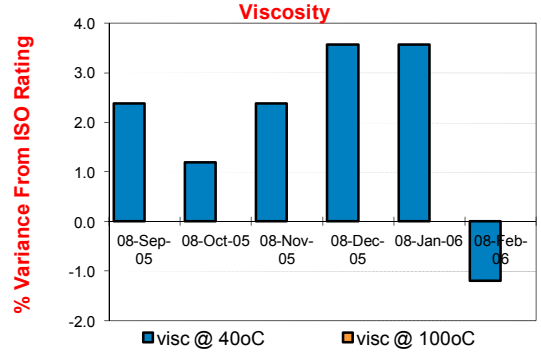
ENGINE	8/09/2005	8/10/2005	8/11/2005	8/12/2005	8/01/2006	8/02/2006
Sample Date	8/09/2005	8/10/2005	8/11/2005	8/12/2005	8/01/2006	8/02/2006
Analysis Date	9/09/2005	9/10/2005	9/11/2005	9/12/2005	9/01/2006	9/02/2006
Sample no.	1,000	50,000	100,000	150,000	200,000	209,600
SMU	0	0	0	0	0	11769hrs
Oil hours	0	0	0	0	0	0
Oil Changed	No	No	No	No	Unsure	No
water %	0	0	0	0	0	0
fuel %	-	-	-	-	-	-
visc @ 100oC	0	0	0	0	0	-
visc @ 40oC	86	85	86	87	87	83

Particle Analysis

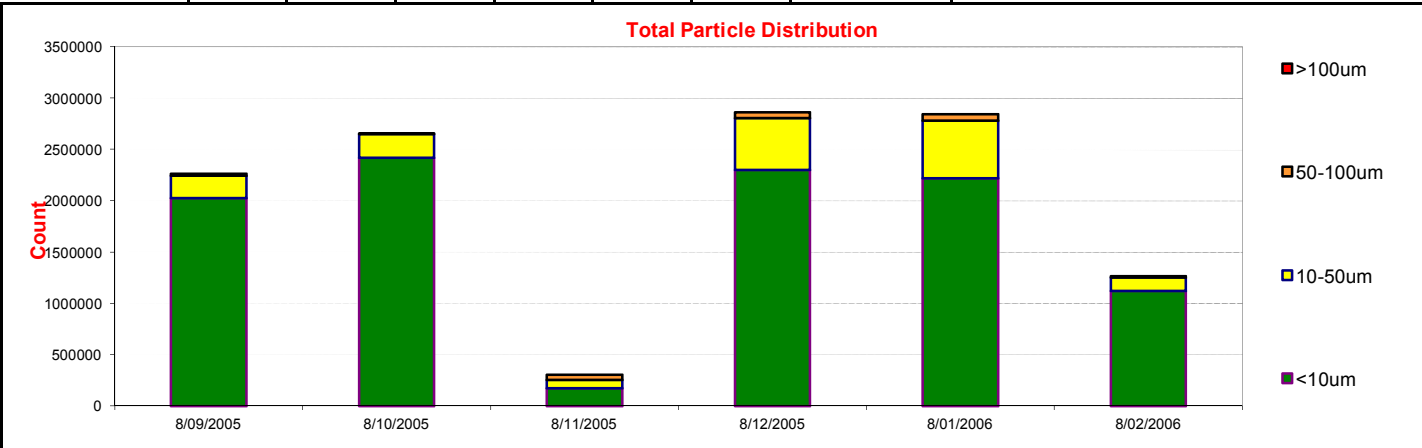
Particle Count	22/18/15	22/18/13	18/17/16	22/20/16	22/20/16	21/18/14	1 ml Sample
>100µm	0	0	0	0	0	0	% of Total
50-100µm	18280	4510	49890	55630	57840	11160	% of Total
10-50µm	218260	235810	87080	506580	562840	132280	% of Total
<10µm	2027660	2415490	168320	2298890	2218620	1120710	% of Total
ISO 4406 Level	22\18\15	22\18\13	18\17\16	22\20\16	22\20\16	21\18\14	04\06\14 µm
PQ-90 Fe mg \ ltr	4	7	9	6	8	15	23

Particle Class - Max Size Observed In µm & Ratio

rubbing wear ratio	Low	Low	Low	Low	Low	Low	Normal Wear Type
ratio	10	10	10	10	10	10	Type
cutting wear ratio	-	-	-	-	-	-	Abnormal Wear Type
scuffing wear ratio	-	-	-	-	-	-	Abnormal Wear Type
fatigue wear ratio	Low	Low	Low	Low	Low	Low	Abnormal Wear Type
ratio	15	15	20	25	25	25	Type
fatigue laminar ratio	-	-	-	-	-	-	Abnormal Wear Type
spheres ratio	-	-	-	-	-	-	Abnormal Wear Type
red oxides ratio	-	-	-	-	-	-	Abnormal Wear Type
non-ferrous ratio	-	-	-	-	-	-	Abnormal Wear Type
misc-dust ratio	Med	Med	Low	Low	Low	Low	Contam'
ratio	25	20	15	15	15	15	


Comments:

All elements are below limits, continue with routine maintenance.



For enquiries, contact: SINGLETON LABORATORY phone: 02 65712699 fax: 02 65712044 mobile: 0419604431

This wear analysis and oil condition report should be used in conjunction with normal maintenance and evaluated from sample to sample. Every care will be taken in processing samples but no express or implied guarantee is furnished in regard to the continuing operation or condition of this machinery or any part thereof.