



MOBILE OIL ANALYSIS REPORT

CONTAMINATION  
OIL CONDITION  
WEAR

**NORMAL**  
**NORMAL**  
**NORMAL**

Wake Stone Corporation - Hyd

Unit Make : CATERPILLAR

Unit Model : {n/a}

Comp Make : {n/a}

Comp Model : {n/a}

Serial No : {n/a}

Cust. Ref No. : {n/a}

Stub No. : KL-M102518

Date Rec'd : Mar 13, 2007

Sample Date : Mar 8, 2007

Diagnostician : Doug Bogart

**RECOMMENDATION**

Resample at the next service interval to monitor.

Sample Date	01/12/07	01/13/07	02/13/07	Current	UOM
Time on Unit	13887	13887	13965	14041	hrs
Time on Oil	266	266	344	420	hrs
Time on Fltr	0	0	78	96	hrs
Oil Maint.	not chg	not chg	not chg	not chg	---
Filter Maint.	changed	changed	changed	not chg	---

**CONTAMINATION**

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Sample Date	01/12/07	01/13/07	02/13/07	Current	Abn
Silicon	1.0	1.2	0.6	0.7	---
Potassium	0.0	0.0	0.0	0.0	---
Water (%)	<0.1	<0.1	<0.1	<0.1	
>2µm	19384	18975	16223	11813	---
>5µm	5296	3358	2574	799	1300
>15µm	260	33	62	44	160
>25µm	57	3	13	9	
>50µm	5	0	2	1	
>100µm	0	0	0	0	
ISO 4406	20/15	19/12	19/13	17/13	17/14

**OIL CONDITION**

Oil Type: 100 GAL of ISO 46

The condition of oil is suitable for further service.

Sample Date	01/12/07	01/13/07	02/13/07	Current	Base
Boron	11	10	0.0	0.0	
Barium	0.1	0.0	0.5	0.2	
Calcium	55	54	138	56	
Magnesium	3.9	3.5	4.8	5.0	
Molybdenum	0.5	0.0	0.6	0.0	
Phosphorus	248	251	264	263	
Sulfur	3920	3946	4400	4284	
Zinc	246	241	266	241	
Visc@40°C	50.88	51.54	50.9	50.64	46.0
Visc@100°C	---	---	---	---	6.5
TAN	0.493	0.400	0.380	0.407	

**WEAR**

All component wear rates are normal.

Sample Date	01/12/07	01/13/07	02/13/07	Current	Abn
Iron	5.8	5.8	6.4	7.0	---
Nickel	0.0	0.0	0.4	0.0	---
Chromium	1.7	1.7	1.6	1.5	---
Titanium	0.0	0.0	0.0	0.0	---
Copper	2.8	2.6	2.0	2.1	---
Aluminum	0.0	0.0	0.0	0.1	---
Tin	0.0	0.0	0.0	0.0	---
Lead	1.1	1.1	0.0	0.0	---
Silver	0.5	0.2	0.0	0.0	---