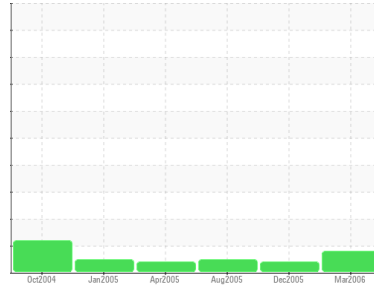




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**Hydraulics**  
Machine Id  
**PRESS #25**  
Component  
**Hydraulic System**  
Fluid  
**SUNOCO SUNVIS 868 ISO 68 (--- LTR)**

## DIAGNOSIS

### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of particulates (5 to 100 microns in size) present in the oil.

### Fluid Condition

The condition of oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC22048491</b>	WC22045412	WC22043223
Sample Date	Client Info	<b>27 Mar 2006</b>	07 Dec 2005	30 Aug 2005
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	<b>6</b>	6	6
Chromium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185(m)	<b>2</b>	<1	2
Copper	ppm	ASTM D5185(m)	<b>10</b>	10	10
Tin	ppm	ASTM D5185(m)	<b>3</b>	2	3
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	<b>&lt;1</b>	1	0
Barium	ppm	ASTM D5185(m)	<b>2</b>	2	3
Molybdenum	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	<b>60</b>	55	53
Calcium	ppm	ASTM D5185(m)	<b>83</b>	79	80
Phosphorus	ppm	ASTM D5185(m)	<b>542</b>	535	530
Zinc	ppm	ASTM D5185(m)	<b>588</b>	571	596
Sulfur	ppm	ASTM D5185(m)	<b>2496</b>	2326	2367

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	<b>4</b>	3	3
Sodium	ppm	ASTM D5185(m)	<b>6</b>	6	7
Potassium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>5855</b>	3521	3235
Particles >6µm	ASTM D7647	<b>▲ 2099</b>	▲ 1385	1004
Particles >14µm	ASTM D7647	<b>▲ 240</b>	149	107
Particles >21µm	ASTM D7647	<b>45</b>	31	19
Particles >38µm	ASTM D7647	<b>5</b>	4	3
Particles >71µm	ASTM D7647	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	<b>▲ 20/18/15</b>	▲ 19/18/14	19/17/14

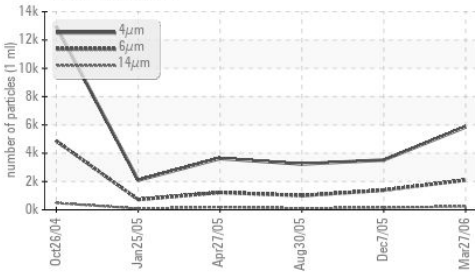
## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.555</b>	0.67	0.678

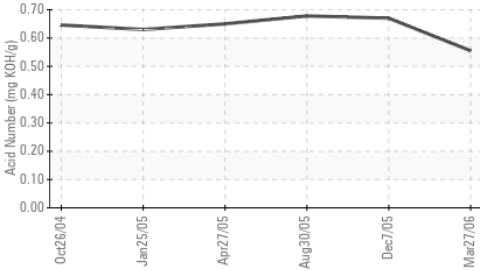


# OIL ANALYSIS REPORT

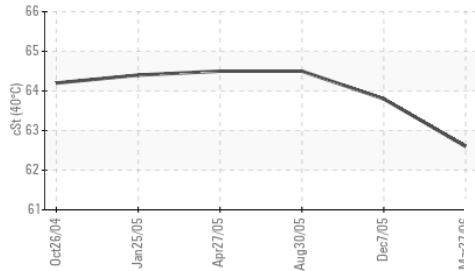
▲ Particle Trend



Acid Number



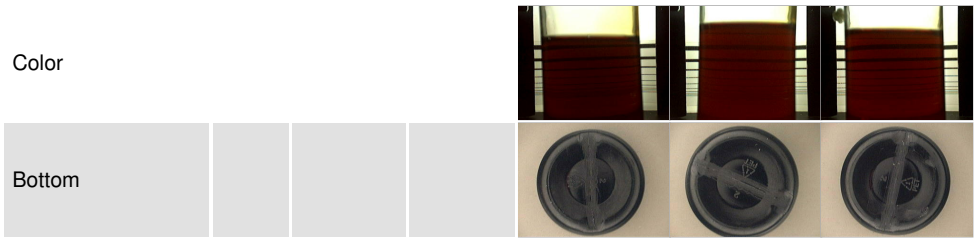
Viscosity @ 40°C



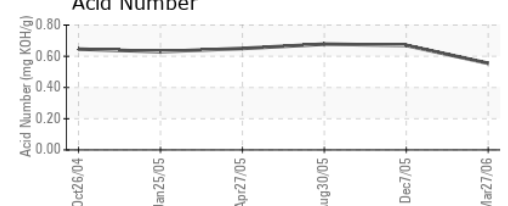
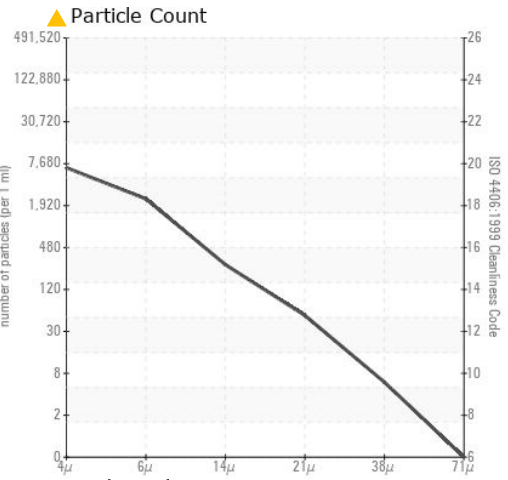
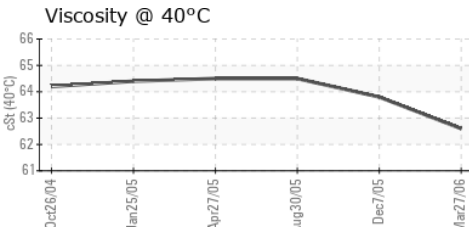
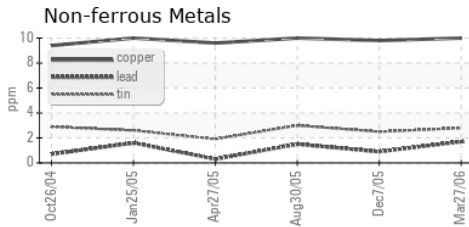
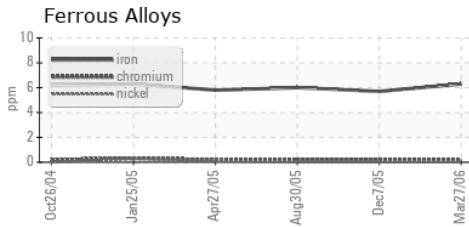
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	62.6	63.8	64.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC22048491 **Received** : 27 Mar 2006  
**Lab Number** : 01284749 **Tested** : 28 Mar 2006  
**Unique Number** : 2191060 **Diagnosed** :  
**Test Package** : IND 2 ( Additional Tests: SCREEN, TAN Man )

**ABC Manufacturing**  
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 Detroit,  
 US 76100  
 Contact: Jim Smith  
 jim.smith@abcmanufacturing.com  
 T: (311)555-1212  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.