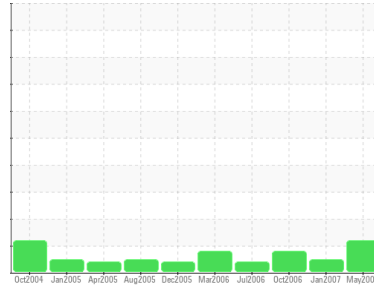




# OIL ANALYSIS REPORT

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>WC22059162</b>	WC22056079	WC22053390
Sample Date	Client Info		<b>30 May 2007</b>	31 Jan 2007	24 Oct 2006
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	ABNORMAL

## 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>7</b>	6	6
Chromium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185(m)	<b>1</b>	2	2
Copper	ppm	ASTM D5185(m)	<b>12</b>	12	11
Tin	ppm	ASTM D5185(m)	<b>&lt;1</b>	2	3
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	<b>3</b>	2	2
Molybdenum	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	<b>68</b>	65	58
Calcium	ppm	ASTM D5185(m)	<b>89</b>	84	80
Phosphorus	ppm	ASTM D5185(m)	<b>578</b>	593	536
Zinc	ppm	ASTM D5185(m)	<b>651</b>	629	595
Sulfur	ppm	ASTM D5185(m)	<b>2560</b>	2558	2441

## CONTAMINANTS

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

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>▲ 7898</b>	5048	5521
Particles >6µm	ASTM D7647		<b>▲ 2300</b>	1057	▲ 1955
Particles >14µm	ASTM D7647		<b>▲ 231</b>	62	▲ 291
Particles >21µm	ASTM D7647		<b>54</b>	12	71
Particles >38µm	ASTM D7647		<b>4</b>	1	7
Particles >71µm	ASTM D7647		<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)		<b>▲ 20/18/15</b>	20/17/13	▲ 20/18/15

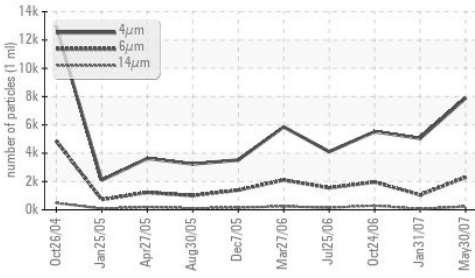
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.662</b>	0.731	0.68

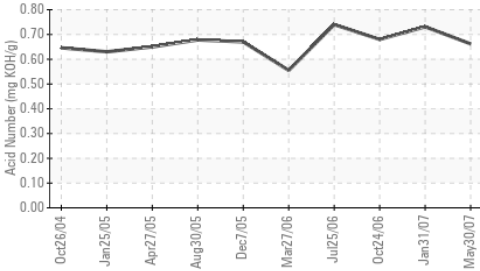


# OIL ANALYSIS REPORT

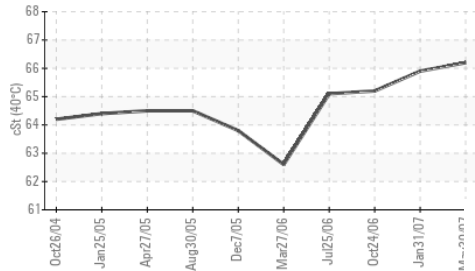
▲ Particle Trend



Acid Number



Viscosity @ 40°C



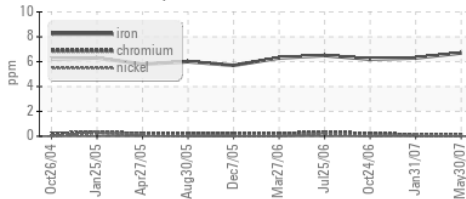
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	66.2	65.9	65.2

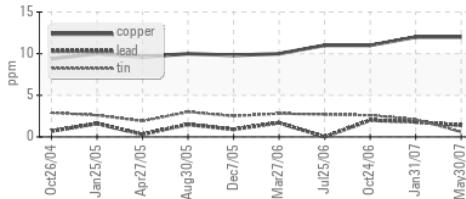
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS

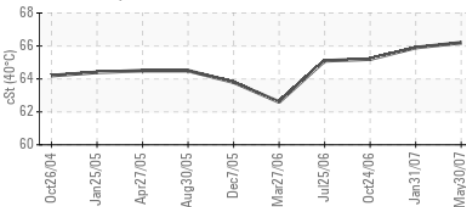
Ferrous Alloys



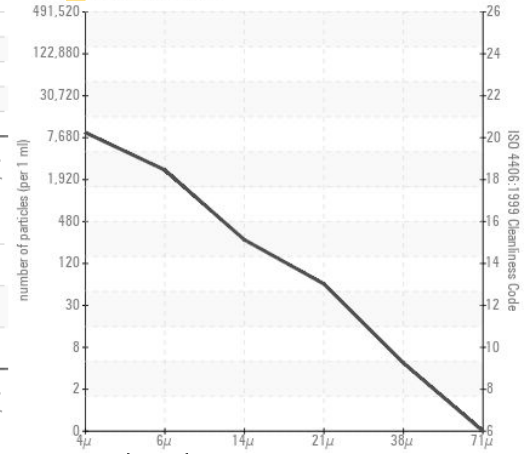
Non-ferrous Metals



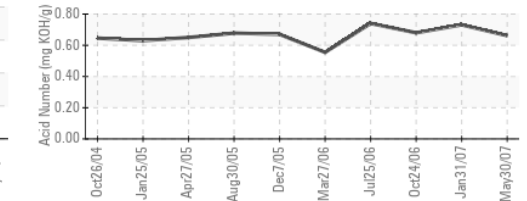
Viscosity @ 40°C



▲ Particle Count



Acid Number



ISO 17025:2017  
Accredited  
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
 Sample No. : WC22059162  
 Lab Number : 01386311  
 Unique Number : 2460768  
 Test Package : IND 2

Received : 30 May 2007  
 Tested : 04 Jun 2007  
 Diagnosed :

**ABC Manufacturing**  
 555 NORTH SERVICE ROAD EAST  
 Detroit,  
 US 76100  
 Contact: Jim Smith  
 jim.smith@abcmanufacturing.com  
 T: (311)555-1212  
 F: (311)555-1313

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.