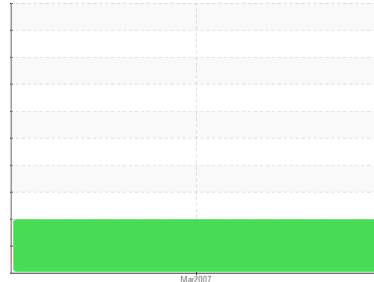




# OIL ANALYSIS REPORT

Sample Rating Trend

INSOLUBLES



Area  
**New Oil**  
 Machine Id  
**NEW OIL #1**  
 Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- LTR)**

## DIAGNOSIS

### ▲ Recommendation

This is a baseline read-out on the submitted sample. We advise that you use electrostatic filtration on this fluid before use.

### ▲ Contamination

There is a high amount of particulates (2 to 15 microns in size) present in the oil.

### Fluid Condition

The viscosity index is 114. The Varnish Potential Rating (VPT) is very high at 90-100.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC727776</b>	---	---
Sample Date	Client Info		<b>01 Mar 2007</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	<b>5</b>	---	---
Chromium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m)	<b>4</b>	---	---
Copper	ppm	ASTM D5185(m)	<b>14</b>	---	---
Tin	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>71</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>85</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>708</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>673</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>2731</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<b>5</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>1</b>	---	---
Potassium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## FLUID CLEANLINESS

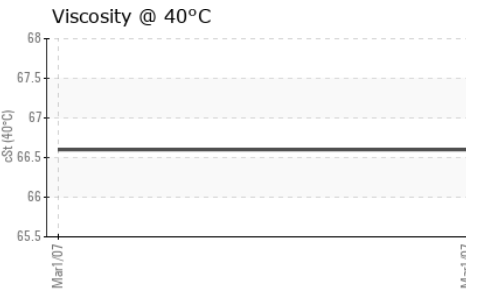
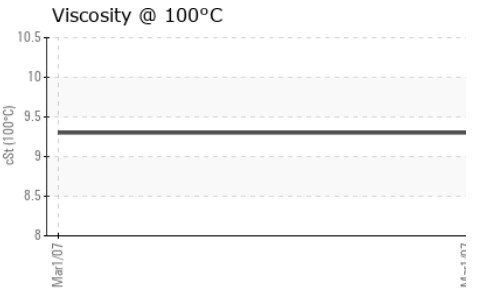
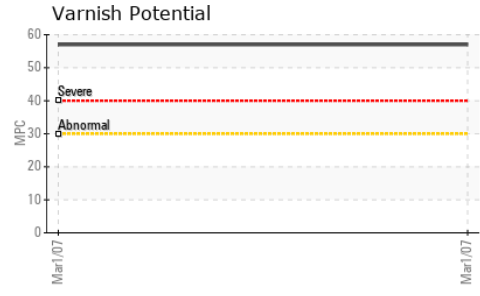
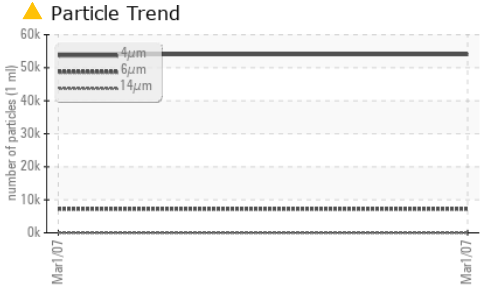
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>▲ 54009</b>	---	---
Particles >6µm	ASTM D7647		<b>▲ 7237</b>	---	---
Particles >14µm	ASTM D7647		<b>25</b>	---	---
Particles >21µm	ASTM D7647		<b>7</b>	---	---
Particles >38µm	ASTM D7647		<b>1</b>	---	---
Particles >71µm	ASTM D7647		<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)		<b>▲ 23/20/12</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>0.723</b>	---	---
MPC Varnish Potential	Scale	ASTM D7843(m)*	<b>▲ 57</b>	---	---



# OIL ANALYSIS REPORT

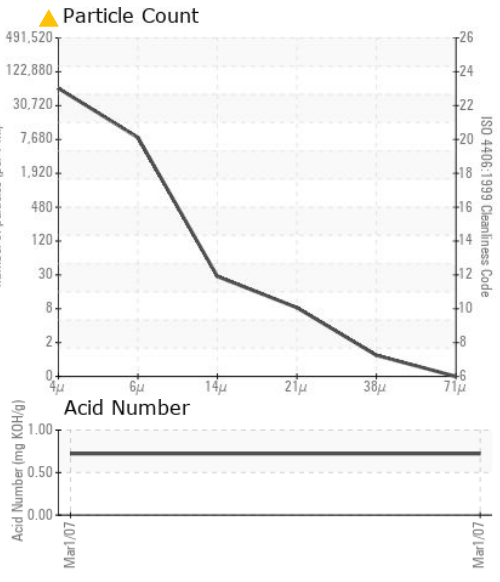
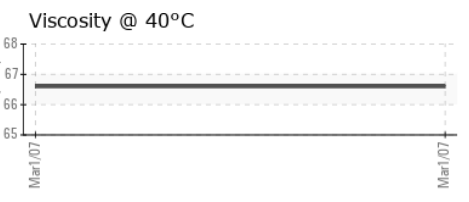
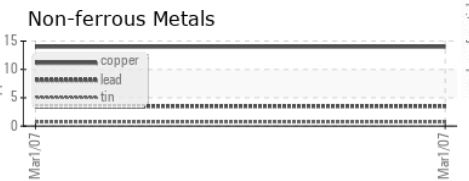
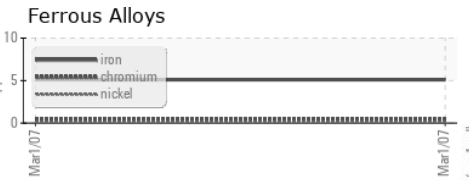


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	66.6	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	117	---	---

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC727776 **Received** : 01 Mar 2007  
**Lab Number** : **01365484** **Tested** : 06 Mar 2007  
**Unique Number** : 2399889 **Diagnosed** :  
**Test Package** : IND 2 ( Additional Tests: KV100, MPC, PrtCount, TAN Man, VI )  
 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.

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Sample Color & Clarity

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