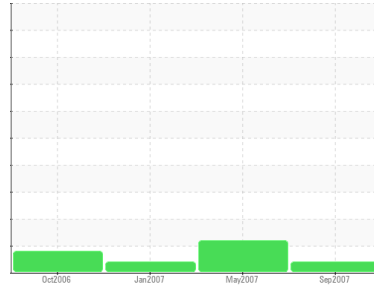




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**Hydraulics**  
Machine Id  
**INJECTION MOULD #64**  
Component  
**Hydraulic System**  
Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend either performing an oil change or oil filtration. We cannot recommend specific action as we have limited information with regards to reservoir capacity and/or lubricant type.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates 2 to 5 microns in size) present in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC22062425</b>	WC22059163	WC2056057
Sample Date	Client Info			<b>27 Sep 2007</b>	30 May 2007	31 Jan 2007
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>	ABNORMAL	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>8</b>	8	8
Chromium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Lead	ppm	ASTM D5185(m)		<b>1</b>	1	2
Copper	ppm	ASTM D5185(m)		<b>15</b>	15	15
Tin	ppm	ASTM D5185(m)		<b>2</b>	0	2
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>2</b>	2	2
Molybdenum	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>59</b>	55	58
Calcium	ppm	ASTM D5185(m)		<b>87</b>	82	85
Phosphorus	ppm	ASTM D5185(m)		<b>544</b>	500	550
Zinc	ppm	ASTM D5185(m)		<b>616</b>	586	598
Sulfur	ppm	ASTM D5185(m)		<b>2189</b>	2028	2151

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<b>10</b>	9	8
Sodium	ppm	ASTM D5185(m)		<b>1</b>	4	4
Potassium	ppm	ASTM D5185(m)		<b>0</b>	1	2

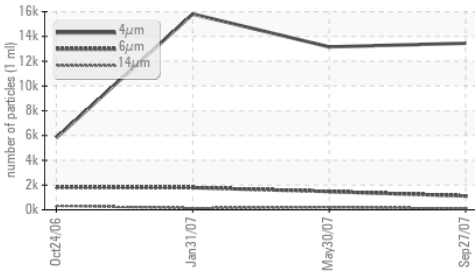
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>▲ 13454</b>	▲ 13158	15810
Particles >6µm		ASTM D7647		<b>1118</b>	▲ 1474	▲ 1790
Particles >14µm		ASTM D7647		<b>106</b>	▲ 197	132
Particles >21µm		ASTM D7647		<b>32</b>	65	30
Particles >38µm		ASTM D7647		<b>3</b>	5	2
Particles >71µm		ASTM D7647		<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)		<b>▲ 21/17/14</b>	▲ 21/18/15	▲ 21/18/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.71</b>	0.665	0.598

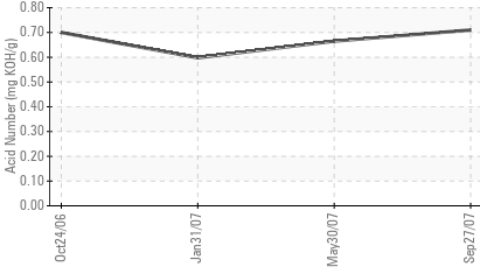


# OIL ANALYSIS REPORT

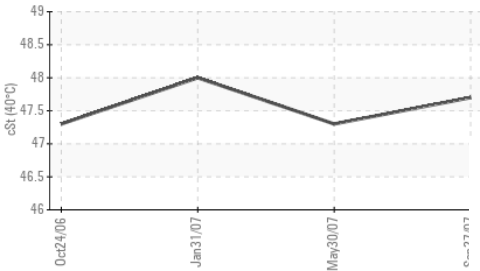
▲ Particle Trend



Acid Number



Viscosity @ 40°C



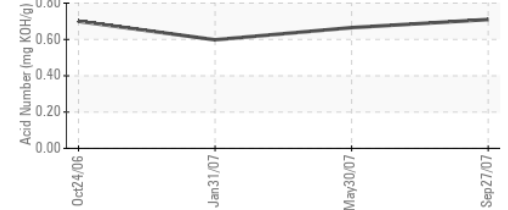
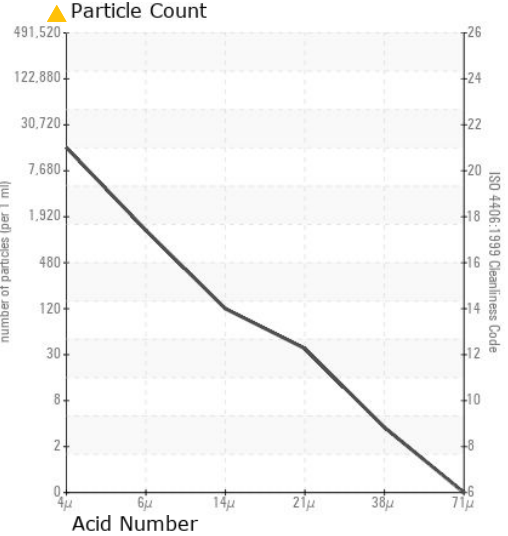
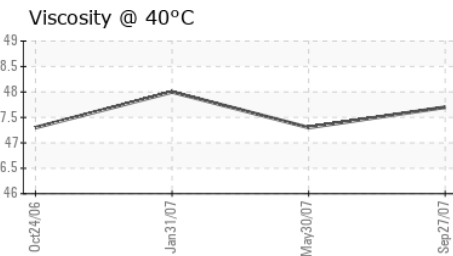
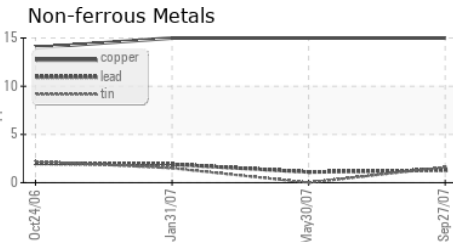
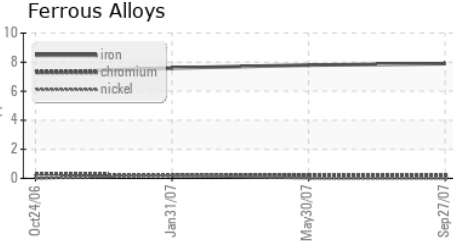
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	47.7	47.3	48.0

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC22062425 **Received** : 28 Sep 2007  
**Lab Number** : 01413288 **Tested** : 02 Oct 2007  
**Unique Number** : 2527994 **Diagnosed** :  
**Test Package** : IND 2

**ABC Manufacturing**  
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 US 76100  
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 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.