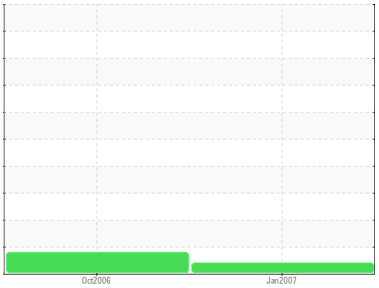
OIL ANALYSIS REPORT

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 5 to 15 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		**WC2056057**	WC22053379	---
Sample Date		Client Info		**31 Jan 2007**	24 Oct 2006	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method		**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		**8**	7	---
Chromium	ppm	ASTM D5185(m)		**<1**	<1	---
Nickel	ppm	ASTM D5185(m)		**<1**	0	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)		**<1**	<1	---
Aluminum	ppm	ASTM D5185(m)		**<1**	<1	---
Lead	ppm	ASTM D5185(m)		**2**	2	---
Copper	ppm	ASTM D5185(m)		**15**	14	---
Tin	ppm	ASTM D5185(m)		**2**	2	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	<1	---
Barium	ppm	ASTM D5185(m)		**2**	2	---
Molybdenum	ppm	ASTM D5185(m)		**<1**	<1	---
Manganese	ppm	ASTM D5185(m)		**<1**	<1	---
Magnesium	ppm	ASTM D5185(m)		**58**	57	---
Calcium	ppm	ASTM D5185(m)		**85**	82	---
Phosphorus	ppm	ASTM D5185(m)		**550**	508	---
Zinc	ppm	ASTM D5185(m)		**598**	576	---
Sulfur	ppm	ASTM D5185(m)		**2151**	2057	---

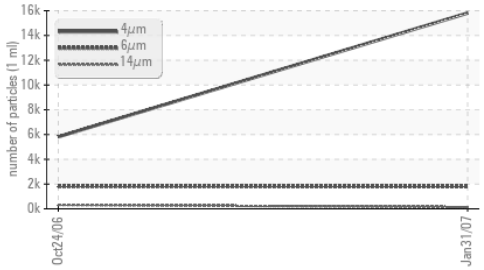
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**8**	9	---
Sodium	ppm	ASTM D5185(m)		**4**	<1	---
Potassium	ppm	ASTM D5185(m)		**2**	<1	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**15810**	5817	---
Particles >6µm		ASTM D7647		▲ **1790**	▲ 1814	---
Particles >14µm		ASTM D7647		**132**	▲ 315	---
Particles >21µm		ASTM D7647		**30**	75	---
Particles >38µm		ASTM D7647		**2**	3	---
Particles >71µm		ASTM D7647		**0**	0	---
Oil Cleanliness		ISO 4406 (c)		▲ **21/18/14**	▲ 20/18/15	---

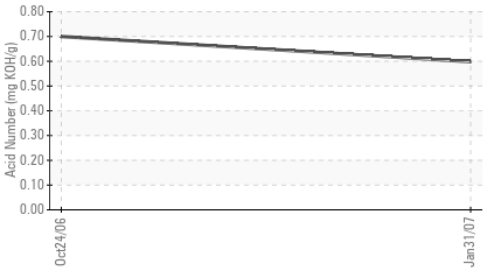
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.598**	0.70	---

OIL ANALYSIS REPORT

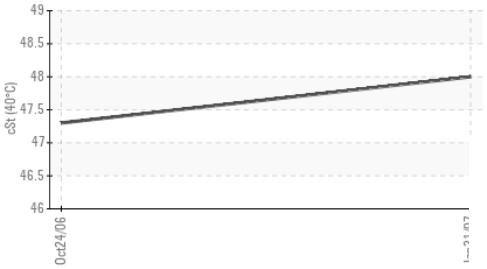
Particle Trend



Acid Number

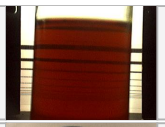


Viscosity @ 40°C



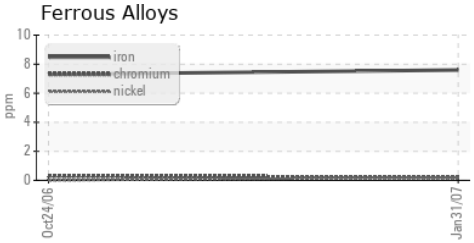
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**NONE**	NONE	---
Debris	scalar	Visual*	NONE	**NONE**	NONE	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		**48.0**	47.3	---

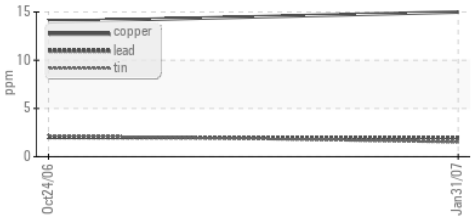
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*		*no image*
Bottom			*no image*		*no image*

GRAPHS

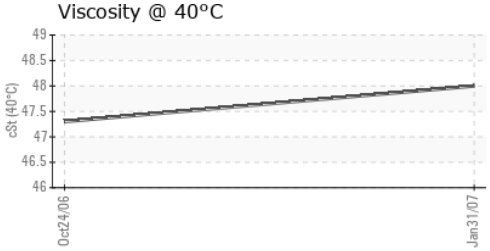
Ferrous Alloys



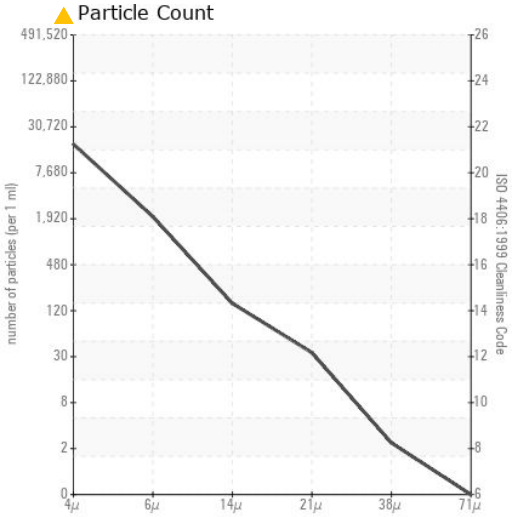
Non-ferrous Metals



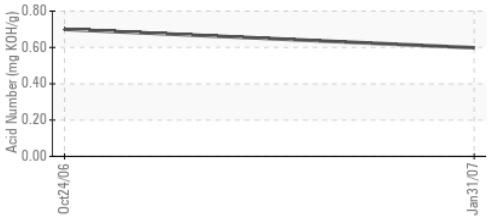
Viscosity @ 40°C



Particle Count



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC2056057 **Received** : 31 Jan 2007
Lab Number : 01359016 **Tested** : 02 Feb 2007
Unique Number : 2385414 **Diagnosed** :
Test Package : IND 2 (Additional Tests: SCREEN, TAN Man)

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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