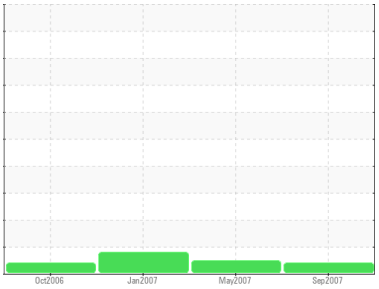
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
Hydraulics
Machine Id
INJECTION MOULD #65
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 oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC22062410**	WC22059177	WC22056071
Sample Date		Client Info		**27 Sep 2007**	30 May 2007	31 Jan 2007
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	NORMAL	ABNORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		**8**	7	7
Chromium	ppm	ASTM D5185(m)		**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)		**0**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)		**<1**	0	0
Lead	ppm	ASTM D5185(m)		**2**	<1	1
Copper	ppm	ASTM D5185(m)		**23**	21	21
Tin	ppm	ASTM D5185(m)		**1**	0	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	<1	<1
Barium	ppm	ASTM D5185(m)		**2**	2	1
Molybdenum	ppm	ASTM D5185(m)		**<1**	0	<1
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**62**	55	55
Calcium	ppm	ASTM D5185(m)		**97**	87	90
Phosphorus	ppm	ASTM D5185(m)		**562**	512	557
Zinc	ppm	ASTM D5185(m)		**642**	588	597
Sulfur	ppm	ASTM D5185(m)		**2341**	2110	2215

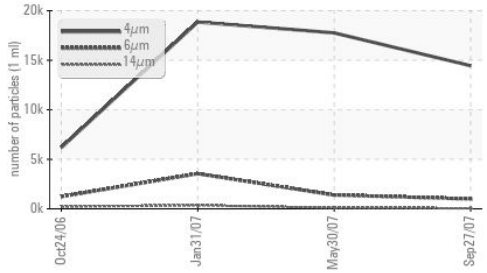
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**5**	4	3
Sodium	ppm	ASTM D5185(m)		**2**	4	5
Potassium	ppm	ASTM D5185(m)		**<1**	<1	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		▲ **14446**	● 17759	18855
Particles >6µm		ASTM D7647		**992**	● 1390	▲ 3551
Particles >14µm		ASTM D7647		**49**	91	▲ 347
Particles >21µm		ASTM D7647		**11**	27	102
Particles >38µm		ASTM D7647		**2**	3	5
Particles >71µm		ASTM D7647		**0**	0	0
Oil Cleanliness		ISO 4406 (c)		▲ **21/17/13**	● 21/18/14	▲ 21/19/16

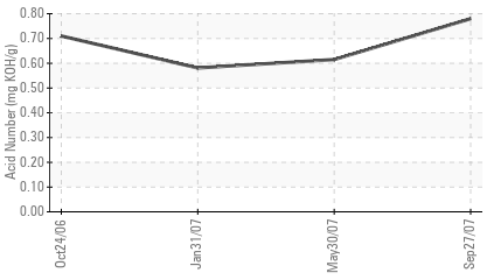
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.78**	0.615	0.581

OIL ANALYSIS REPORT

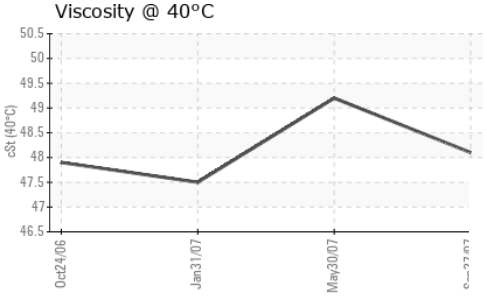
Particle Trend



Acid Number

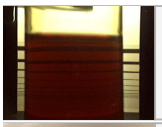


Viscosity @ 40°C



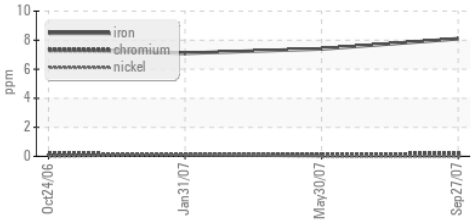
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**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)		**48.1**	49.2	47.5

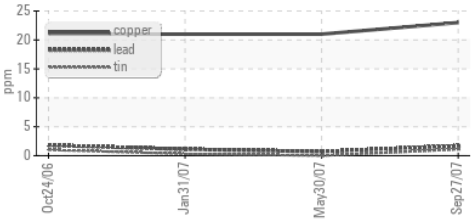
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

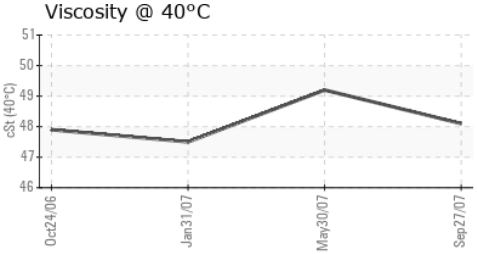
Ferrous Alloys



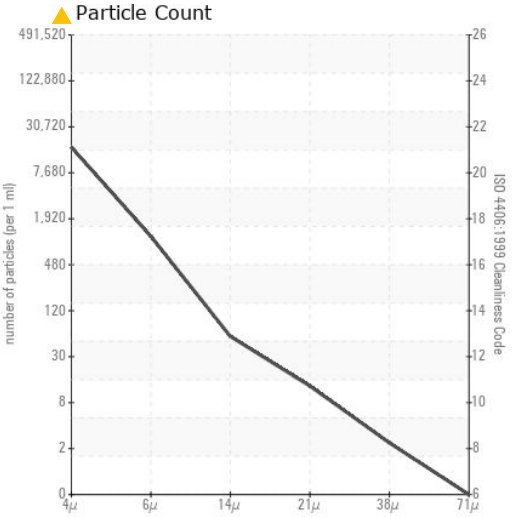
Non-ferrous Metals



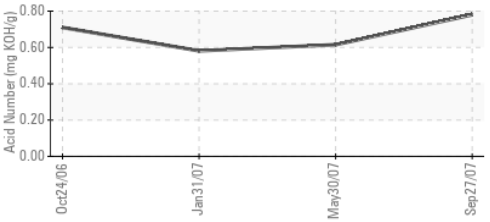
Viscosity @ 40°C



Particle Count



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC22062410
Lab Number : 01413293
Unique Number : 2527999
Test Package : IND 2

Received : 28 Sep 2007
Tested : 02 Oct 2007
Diagnosed :

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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