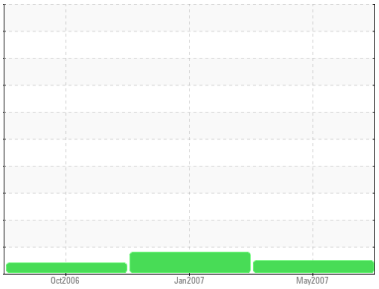
OIL ANALYSIS REPORT

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 particulates (2 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		**WC22059177**	WC22056071	WC22053373
Sample Date		Client Info		**30 May 2007**	31 Jan 2007	24 Oct 2006
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				**NORMAL**	ABNORMAL	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)		**7**	7	7
Chromium	ppm	ASTM D5185(m)		**<1**	<1	<1
Nickel	ppm	ASTM D5185(m)		**0**	<1	0
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	<1
Aluminum	ppm	ASTM D5185(m)		**0**	0	<1
Lead	ppm	ASTM D5185(m)		**<1**	1	2
Copper	ppm	ASTM D5185(m)		**21**	21	21
Tin	ppm	ASTM D5185(m)		**0**	<1	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**	1	1
Molybdenum	ppm	ASTM D5185(m)		**0**	<1	<1
Manganese	ppm	ASTM D5185(m)		**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**55**	55	59
Calcium	ppm	ASTM D5185(m)		**87**	90	91
Phosphorus	ppm	ASTM D5185(m)		**512**	557	524
Zinc	ppm	ASTM D5185(m)		**588**	597	598
Sulfur	ppm	ASTM D5185(m)		**2110**	2215	2188

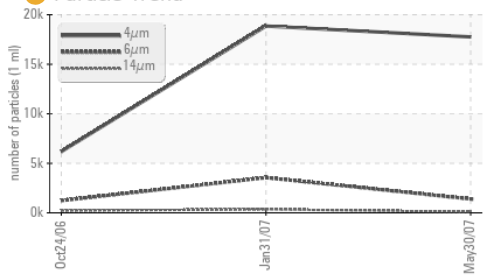
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**4**	3	4
Sodium	ppm	ASTM D5185(m)		**4**	5	1
Potassium	ppm	ASTM D5185(m)		**<1**	<1	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**17759**	18855	6184
Particles >6µm		ASTM D7647		**1390**	▲ 3551	1229
Particles >14µm		ASTM D7647		**91**	▲ 347	▲ 216
Particles >21µm		ASTM D7647		**27**	102	65
Particles >38µm		ASTM D7647		**3**	5	5
Particles >71µm		ASTM D7647		**0**	0	0
Oil Cleanliness		ISO 4406 (c)		**21/18/14**	▲ 21/19/16	▲ 20/17/15

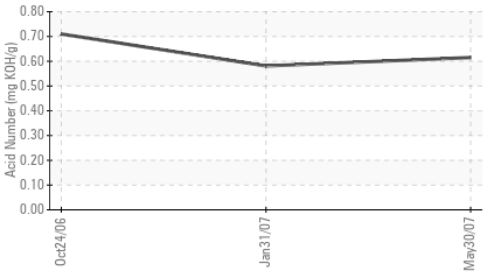
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.615**	0.581	0.71

OIL ANALYSIS REPORT

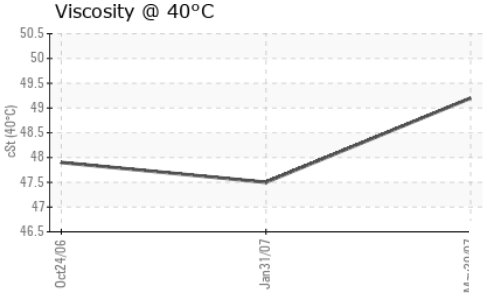
Particle Trend



Acid Number

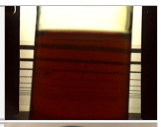
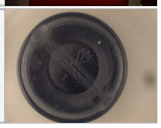


Viscosity @ 40°C



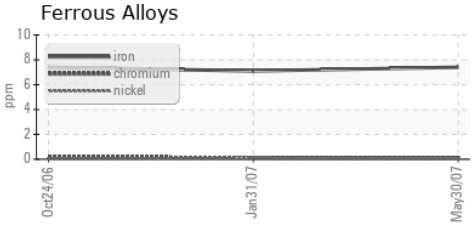
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	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)		**49.2**	47.5	47.9

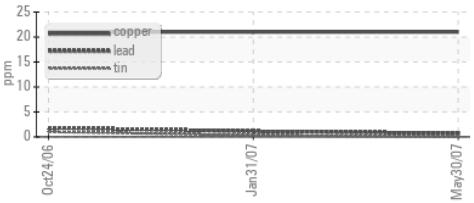
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	
Bottom			*no image*	*no image*	

GRAPHS

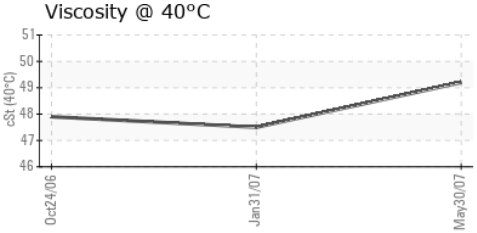
Ferrous Alloys



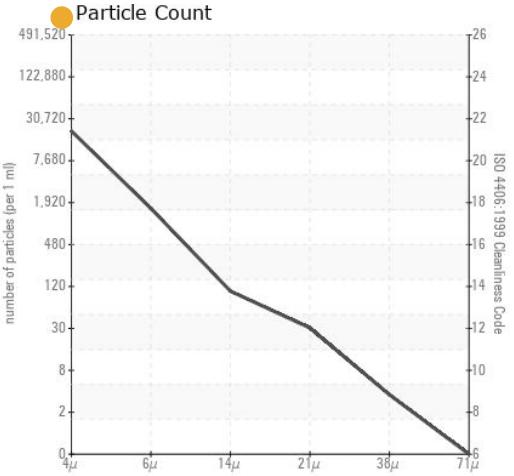
Non-ferrous Metals



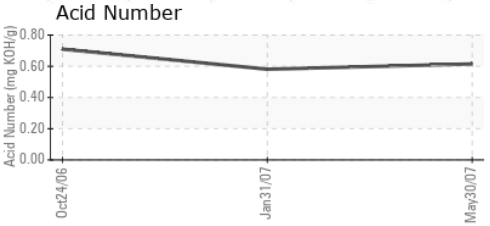
Viscosity @ 40°C



Particle Count



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC22059177 **Received** : 30 May 2007
Lab Number : 01386328 **Tested** : 01 Jun 2007
Unique Number : 2460785 **Diagnosed** :
Test Package : IND 2 (Additional Tests: 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.

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