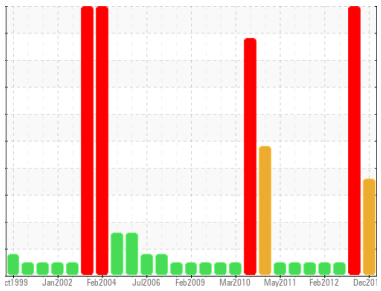
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
BDE - PH2 COMPRESSOR #2 (S/N 60613)
Component
Reciprocating Compressor
Fluid
COMPRO XL-S 100 (5 QTS)

DIAGNOSIS

Recommendation
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear
PQ levels are abnormal. Copper and iron ppm levels are abnormal. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination
There is no indication of any contamination in the component.

Fluid Condition
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC863613**	WC834446	WC863654
Sample Date		Client Info		**02 Dec 2013**	07 Aug 2012	08 May 2012
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**	SEVERE	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		▲ **84**	▲ 109	23
Iron	ppm	ASTM D5185(m)	>50	▲ **166**	▲ 185	14
Chromium	ppm	ASTM D5185(m)	>10	**5**	8	<1
Nickel	ppm	ASTM D5185(m)		**<1**	<1	0
Titanium	ppm	ASTM D5185(m)		**<1**	0	0
Silver	ppm	ASTM D5185(m)		**0**	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	**<1**	1	<1
Lead	ppm	ASTM D5185(m)	>25	**4**	6	2
Copper	ppm	ASTM D5185(m)	>50	▲ **83**	▲ 95	31
Tin	ppm	ASTM D5185(m)	>15	**<1**	<1	0
Antimony	ppm	ASTM D5185(m)		**0**	<1	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**<1**	<1	0

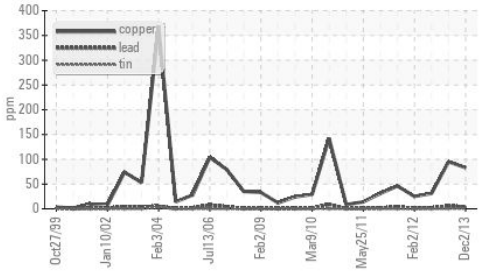
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**<1**	<1	0
Barium	ppm	ASTM D5185(m)	40	**<1**	<1	0
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0
Manganese	ppm	ASTM D5185(m)		**1**	1	0
Magnesium	ppm	ASTM D5185(m)		**0**	1	<1
Calcium	ppm	ASTM D5185(m)	40	**1**	2	0
Phosphorus	ppm	ASTM D5185(m)	320	**282**	291	328
Zinc	ppm	ASTM D5185(m)	40	**11**	12	4
Sulfur	ppm	ASTM D5185(m)	3000	**1595**	1981	1747
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	**4**	4	<1
Sodium	ppm	ASTM D5185(m)		**2**	<1	0
Potassium	ppm	ASTM D5185(m)	>20	**<1**	3	<1

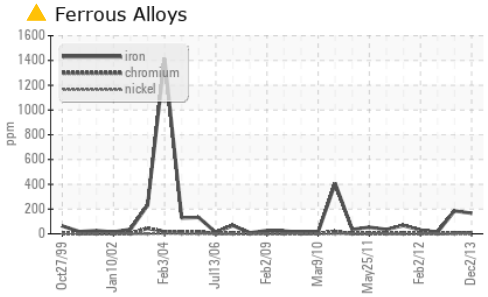
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.11	**0.169**	0.18	0.16

OIL ANALYSIS REPORT

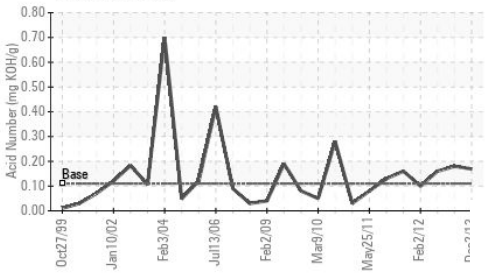
Non-ferrous Metals



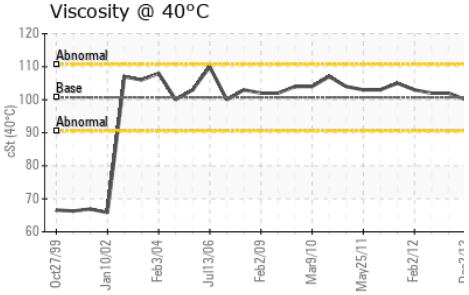
Ferrous Alloys



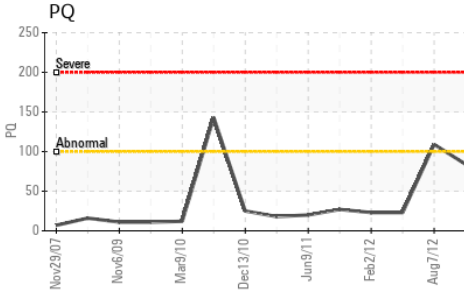
Acid Number



Viscosity @ 40°C

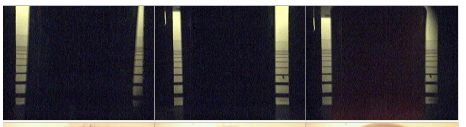


PQ



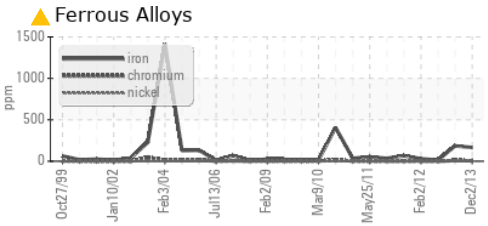
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**VLITE**	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**LTMOD**	LIGHT	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	LIGHT
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*	>0.1	**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)	100.7	**100**	102	102

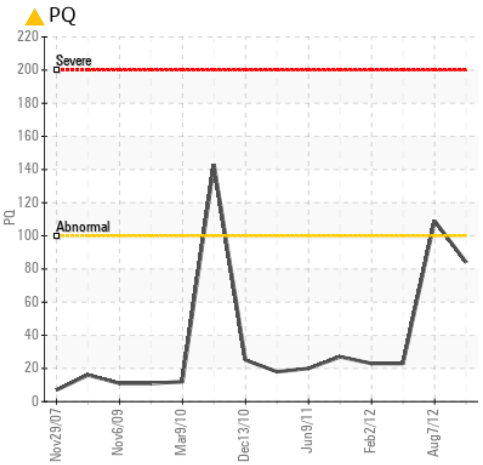
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

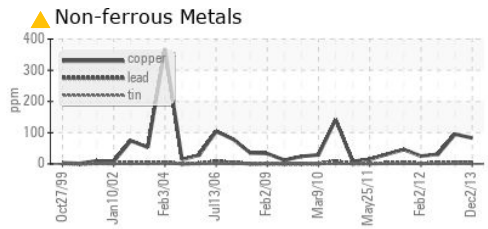
Ferrous Alloys



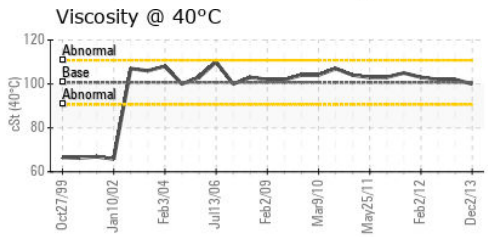
PQ



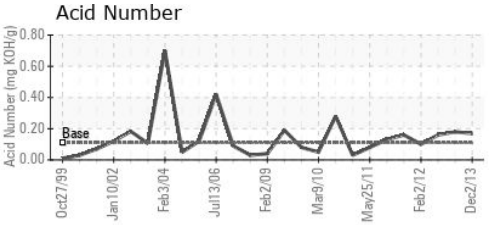
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC863613
Lab Number : 01939077
Unique Number : 3965185
Test Package : IND 2 (Additional Tests: TAN Man)

Received : 21 Aug 2014
Tested : 22 Aug 2014
Diagnosed : 22 Aug 2014 - Kevin Marson

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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