



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Main Deck
 Machine Id
ARVA Crane
 Component
Main Hoist
 Fluid
PETRO CANADA ENDURATEX EP 150 (6 GAL)

RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Cleanliness target codes are in part dependent on the system filter micron ratings. Please provide the micron rating of the filters in this system for future samples.

WEAR

All component wear rates are normal.

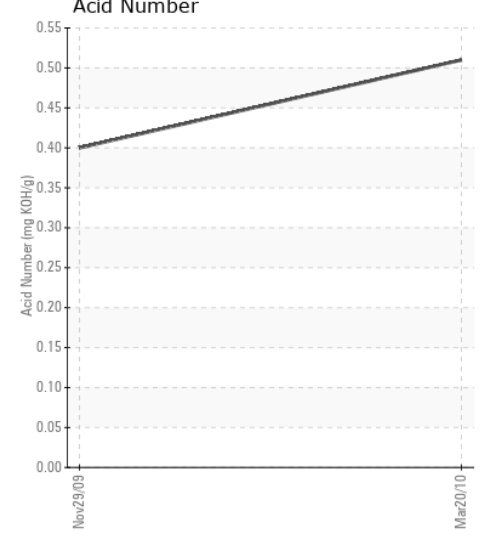
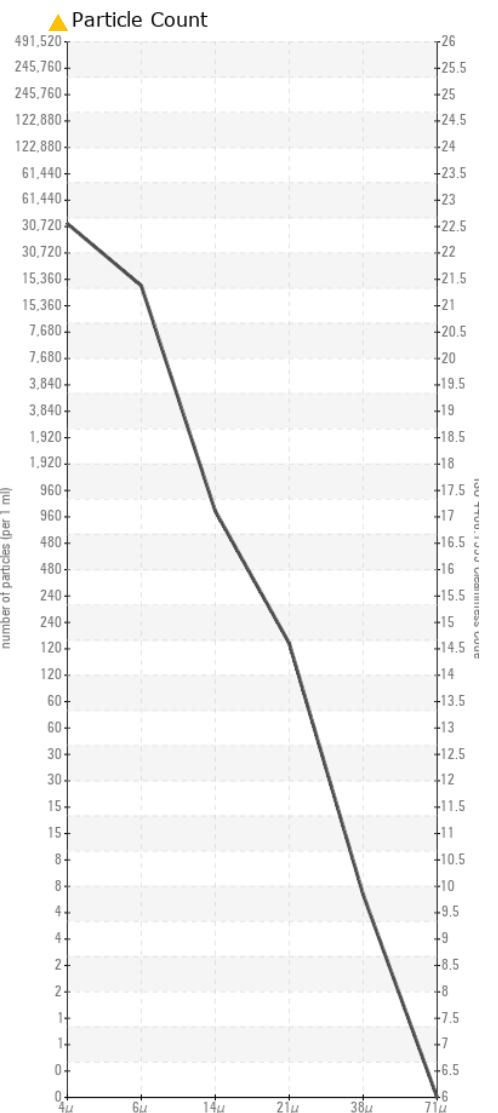
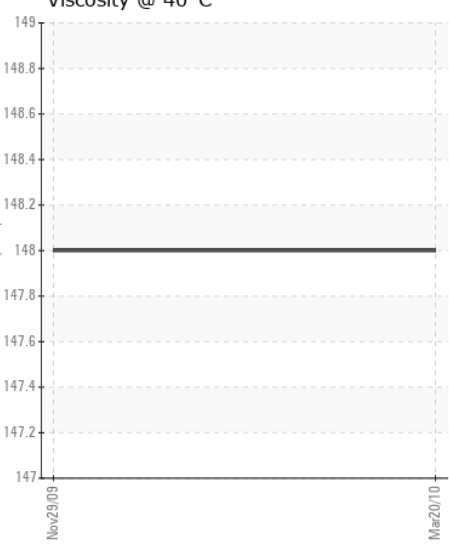
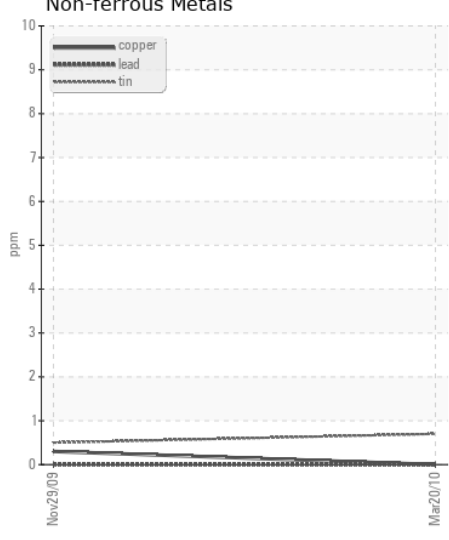
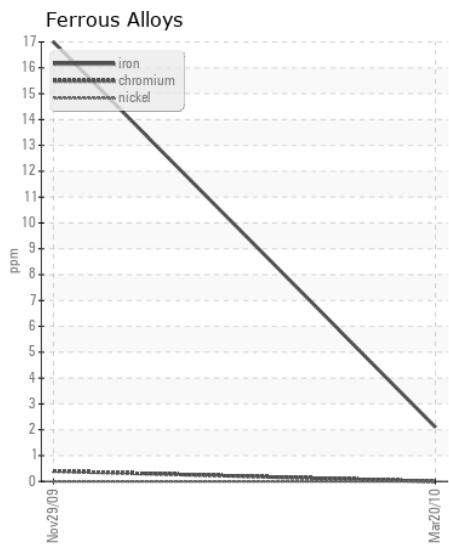
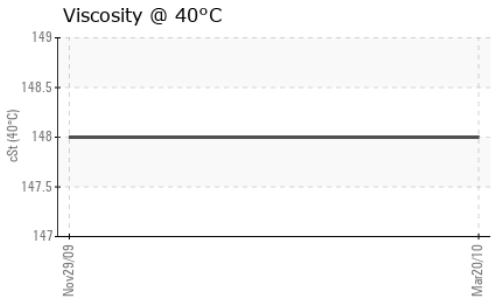
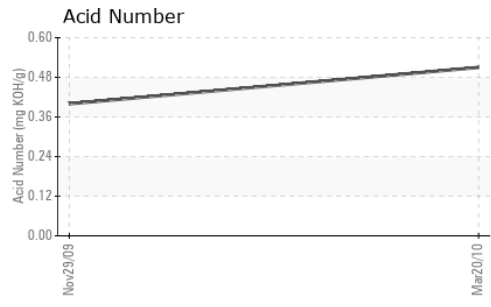
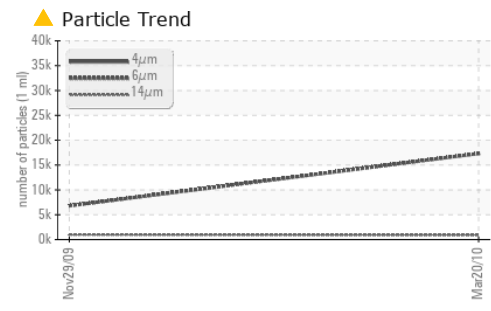
CONTAMINATION

There is a high amount of particulates (5 to 100 microns in size) present in the oil.

FLUID CONDITION

The condition of oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC62003423	WC62003232	---
Sample Date		Client Info		20 Mar 2010	29 Nov 2009	---
Machine Age	hrs	Client Info		0	192	---
Oil Age	hrs	Client Info		0	192	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185(m)		2	17	---
Chromium	ppm	ASTM D5185(m)		0	<1	---
Nickel	ppm	ASTM D5185(m)		0	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)		<1	0	---
Lead	ppm	ASTM D5185(m)		0	0	---
Copper	ppm	ASTM D5185(m)		0	<1	---
Tin	ppm	ASTM D5185(m)		<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	▲ LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)		3	<1	---
Potassium	ppm	ASTM D5185(m)		1	5	---
Water		WC Method		NEG	NEG	---
Particles >4µm		ASTM D7647		39052	---	---
Particles >6µm		ASTM D7647		▲ 17326	▲ 6799	---
Particles >14µm		ASTM D7647		▲ 909	▲ 1002	---
Particles >21µm		ASTM D7647		161	45	---
Particles >38µm		ASTM D7647		6	4	---
Particles >71µm		ASTM D7647		0	0	---
Oil Cleanliness		ISO 4406 (c)		▲ 22/21/17	▲ 20/17	---
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	---
Sodium	ppm	ASTM D5185(m)		0	6	---
Boron	ppm	ASTM D5185(m)		38	15	---
Barium	ppm	ASTM D5185(m)		<1	<1	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		<1	<1	---
Calcium	ppm	ASTM D5185(m)		17	21	---
Phosphorus	ppm	ASTM D5185(m)		259	246	---
Zinc	ppm	ASTM D5185(m)		2	6	---
Sulfur	ppm	ASTM D5185(m)		6702	6484	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.510	0.40	---
Visc @ 40°C	cSt	ASTM D7279(m)		148	148	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC62003423 **Received** : 01 Apr 2010
Lab Number : 01599930 **Tested** : 05 Apr 2010
Unique Number : 3081013 **Diagnosed** :
Test Package : MAR 2

CANADIAN COAST GUARD
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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.