



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

## Equipment de Pont

Machine Id

## Obsolete 17C01F#3 Grue Arriere Babord (HEPBURN) (S/N C-10081)

Component

## Rear Crane

Fluid

## PETRO CANADA HYDREX MV ARCTIC 15 (--- GAL)

### RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0811232	WC0751394	WC0392707
Sample Date		Client Info		23 Oct 2023	30 Mar 2023	13 Mar 2020
Machine Age	hrs	Client Info		100	78	0
Oil Age	hrs	Client Info		100	78	0
Filter Age	hrs	Client Info		1	78	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	MARGINAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<1	<1	<1
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>10	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	0	0	<1
Lead	ppm	ASTM D5185(m)	>20	<1	0	▲ 12
Copper	ppm	ASTM D5185(m)	>20	<1	<1	4
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

### CONTAMINATION

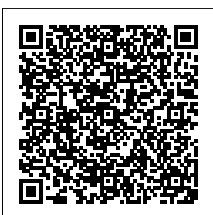
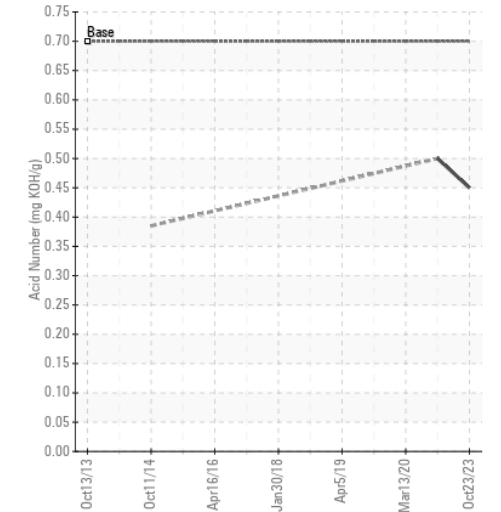
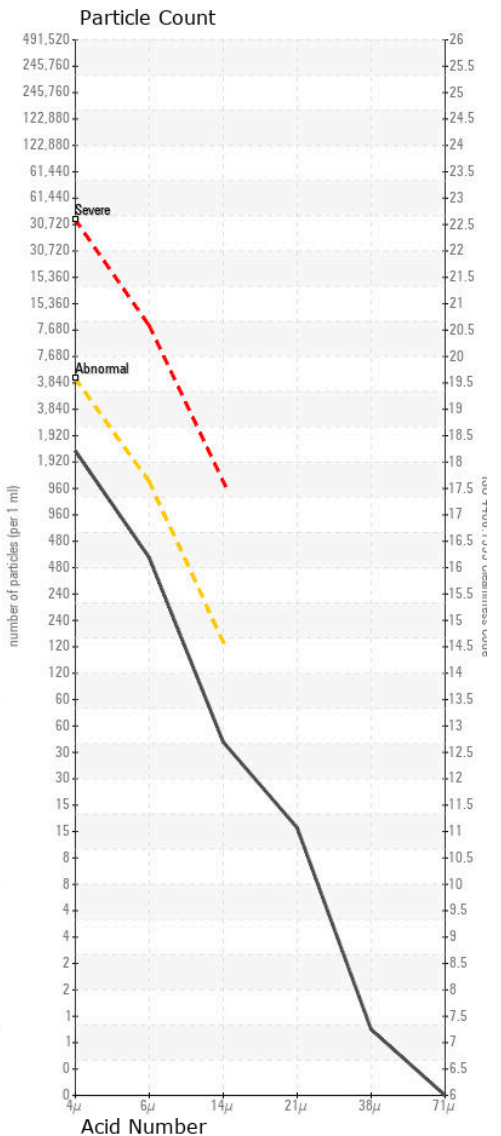
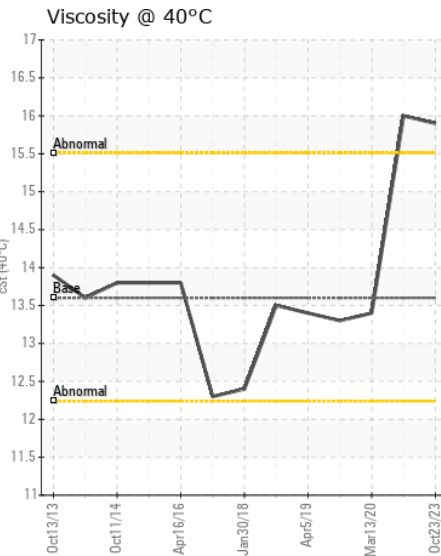
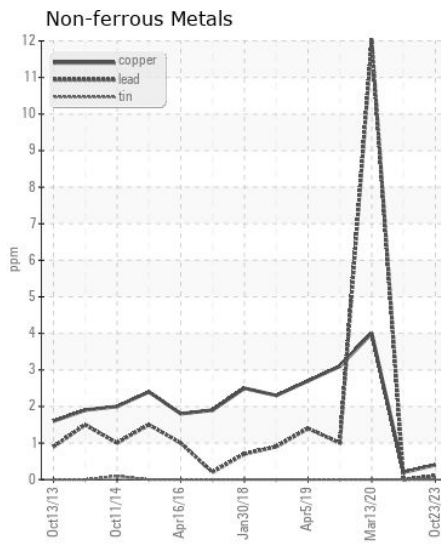
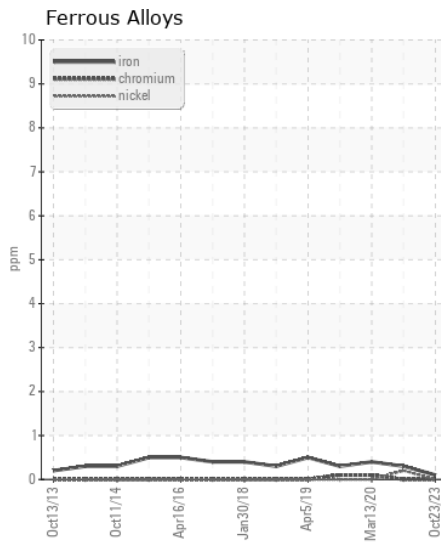
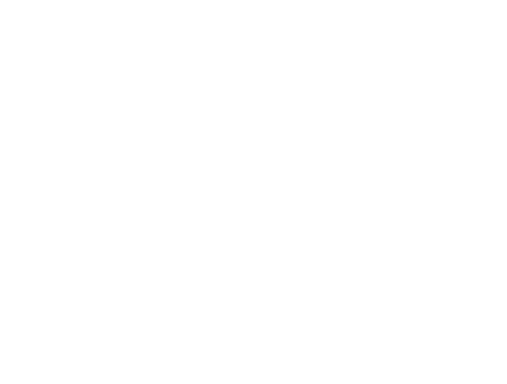
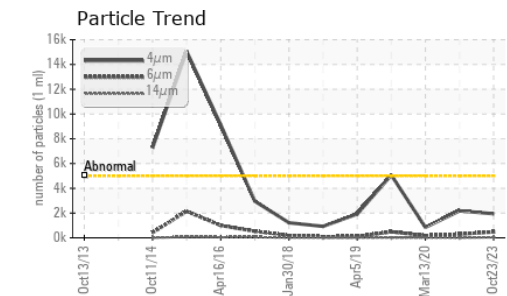
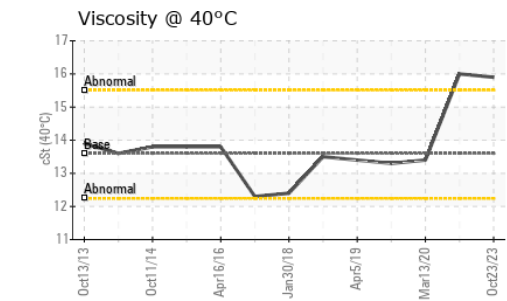
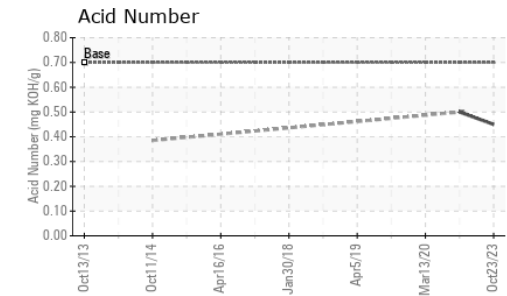
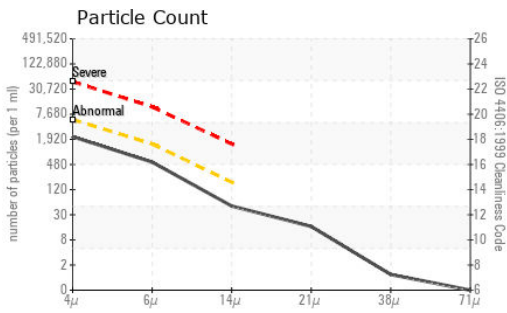
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>15	<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1944	2178	847
Particles >6µm		ASTM D7647	>1300	481	299	178
Particles >14µm		ASTM D7647	>160	43	11	20
Particles >21µm		ASTM D7647	>40	14	4	10
Particles >38µm		ASTM D7647	>10	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/13	18/15/11	17/15/11
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*	>0.05	NEG	NEG	NEG

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		0	0	0
Boron	ppm	ASTM D5185(m)	0	0	0	<1
Barium	ppm	ASTM D5185(m)	0	<1	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	<1
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	<1	0	<1
Calcium	ppm	ASTM D5185(m)	50	50	51	67
Phosphorus	ppm	ASTM D5185(m)	330	332	366	338
Zinc	ppm	ASTM D5185(m)	430	418	413	426
Sulfur	ppm	ASTM D5185(m)	760	1888	1984	1131
Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	0.45	0.50	---
Visc @ 40°C	cSt	ASTM D7279(m)	13.6	15.9	16.0	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0811232  
**Lab Number** : 02593216  
**Unique Number** : 5670295  
**Test Package** : MAR 2  
**Received** : 01 Nov 2023  
**Tested** : 02 Nov 2023  
**Diagnosed** : 02 Nov 2023 - Kevin Marson

**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.