



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Equipment de Pont
 Machine Id
Obsolete 17C01F#1 Grue Avant Babord (HEPBURN) (S/N C-10079)
 Component
Front 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		WC0811223	WC0627035	WC0392714
Sample Date		Client Info		23 Oct 2023	30 Mar 2023	13 Mar 2020
Machine Age	hrs	Client Info		347	245	0
Oil Age	hrs	Client Info		347	245	0
Filter Age	hrs	Client Info		46	44	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<1	<1	2
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	0	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	2
Copper	ppm	ASTM D5185(m)	>20	<1	<1	7
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

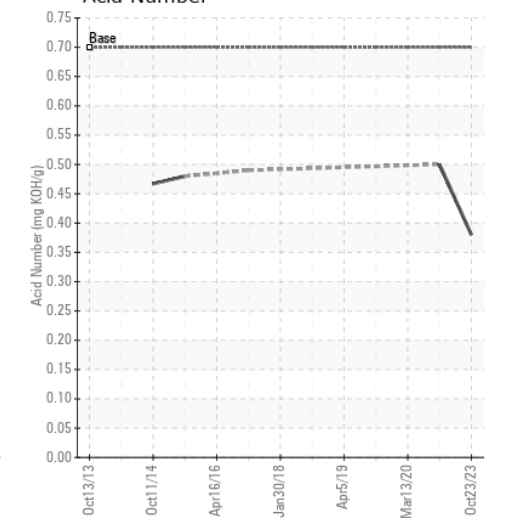
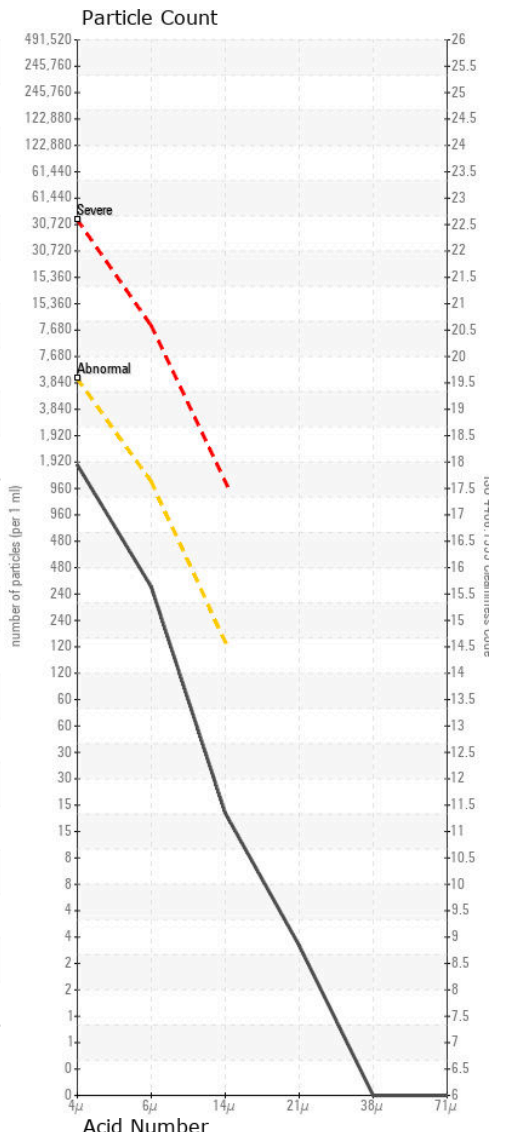
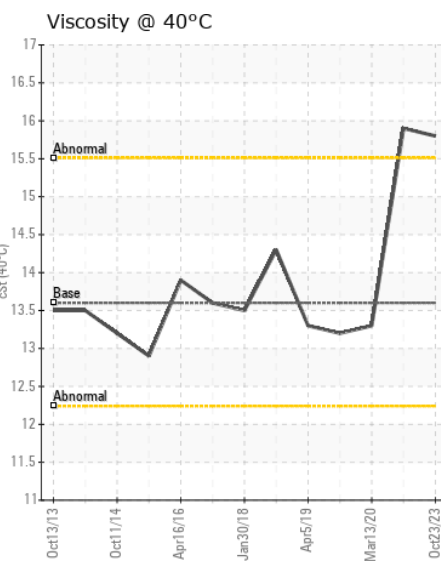
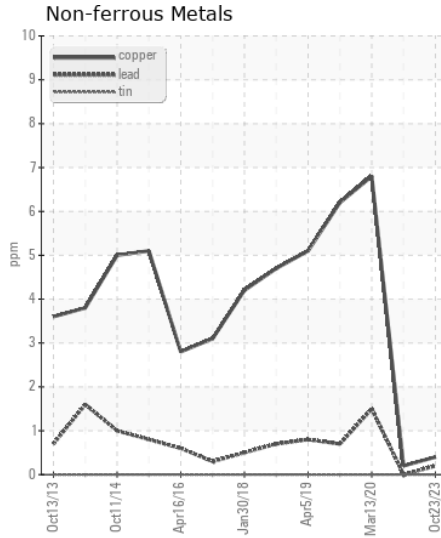
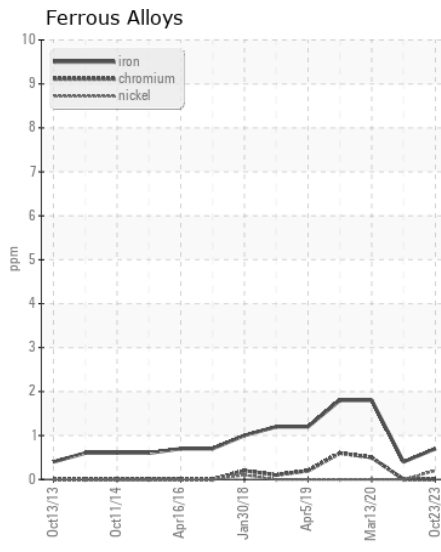
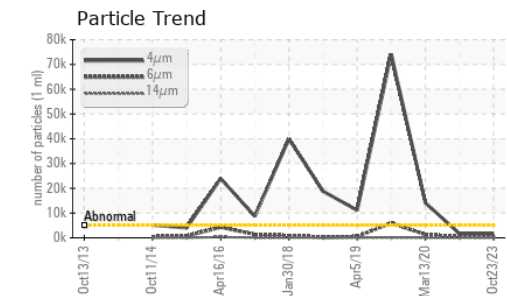
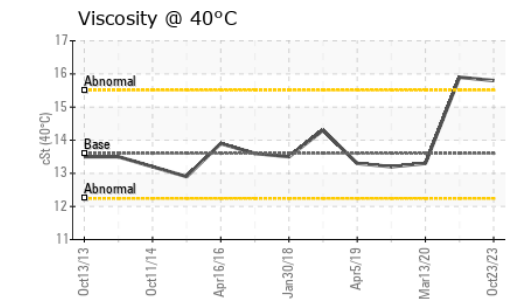
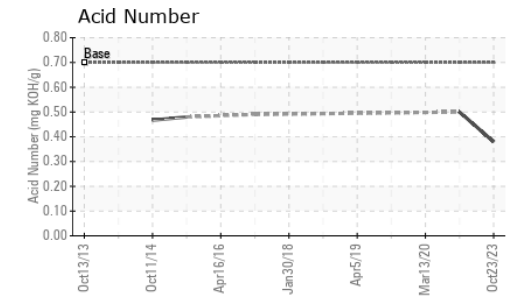
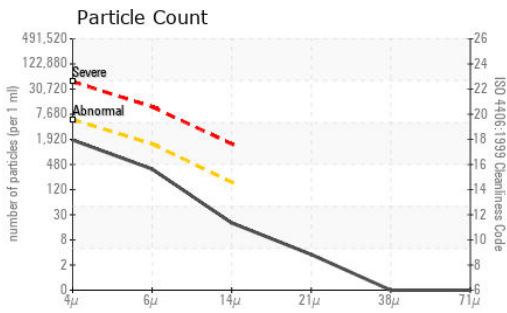
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>15	0	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1620	1682	▲ 14096
Particles >6µm		ASTM D7647	>1300	328	446	● 1315
Particles >14µm		ASTM D7647	>160	17	34	40
Particles >21µm		ASTM D7647	>40	3	8	16
Particles >38µm		ASTM D7647	>10	0	0	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11	18/16/12	▲ 21/18/12
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)		<1	<1	<1
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	0	0	1
Calcium	ppm	ASTM D5185(m)	50	52	53	93
Phosphorus	ppm	ASTM D5185(m)	330	343	379	301
Zinc	ppm	ASTM D5185(m)	430	430	431	383
Sulfur	ppm	ASTM D5185(m)	760	2041	2153	1167
Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	0.38	0.50	---
Visc @ 40°C	cSt	ASTM D7279(m)	13.6	15.8	15.9	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0811223
Lab Number : 02593219
Unique Number : 5670298
Test Package : MAR 2

Received : 01 Nov 2023
Tested : 01 Nov 2023
Diagnosed : 02 Nov 2023 - Kevin Marson

Canadian Coast Guard
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 Quebec, QC
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 Contact: Chief Engineer
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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.