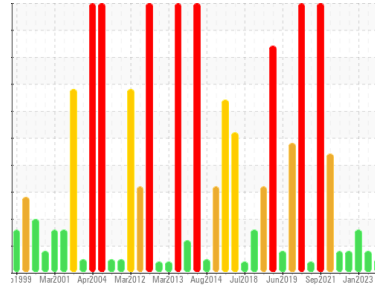




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**PUMPHOUSE/LANCE & FCE PUMPS**  
 Machine Id  
**C - Lance and Furnace 2 Electric Pump OB**

Component  
**Lube System**  
 Fluid  
**PETRO CANADA HYDREX AW 100 (1 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0866300</b>	WC0824423	WC0785686
Sample Date	Client Info		<b>04 Oct 2023</b>	31 May 2023	27 Jan 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	ATTENTION	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*	>DFLT	<b>0</b>	17	100
Iron	ppm	ASTM D5185(m)	>20	<b>20</b>	58
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1
Lead	ppm	ASTM D5185(m)	>20	<b>1</b>	<1
Copper	ppm	ASTM D5185(m)	>20	<b>4</b>	6
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1
Calcium	ppm	ASTM D5185(m)	50	<b>39</b>	45
Phosphorus	ppm	ASTM D5185(m)	330	<b>327</b>	358
Zinc	ppm	ASTM D5185(m)	430	<b>417</b>	375
Sulfur	ppm	ASTM D5185(m)	760	<b>2489</b>	2954
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

## CONTAMINANTS

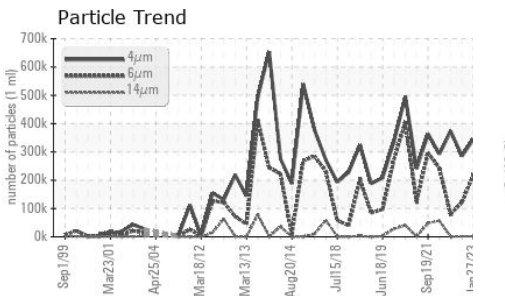
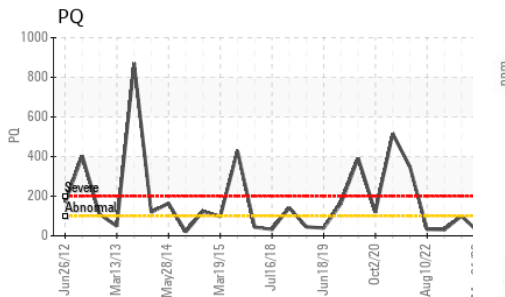
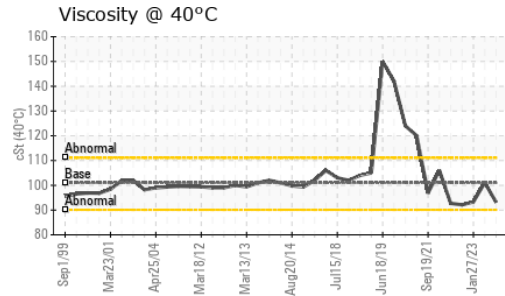
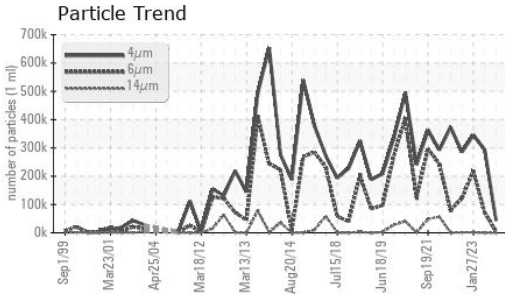
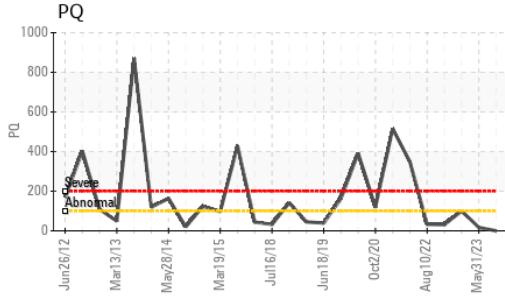
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<b>3</b>	4
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>43774</b>	293101	344950
Particles >6µm	ASTM D7647	>40000	<b>3517</b>	71738	218513
Particles >14µm	ASTM D7647	>10000	<b>115</b>	170	1514
Particles >21µm	ASTM D7647	>2500	<b>22</b>	29	117
Particles >38µm	ASTM D7647	>640	<b>1</b>	1	1
Particles >71µm	ASTM D7647	>160	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/22/20	<b>23/19/14</b>	25/23/15	26/25/18



# OIL ANALYSIS REPORT

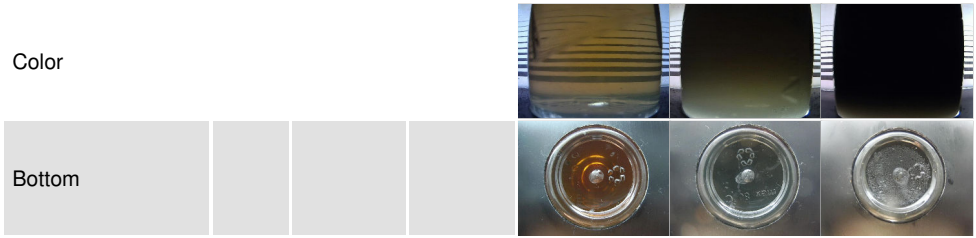


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	<b>0.42</b>	0.39	0.45

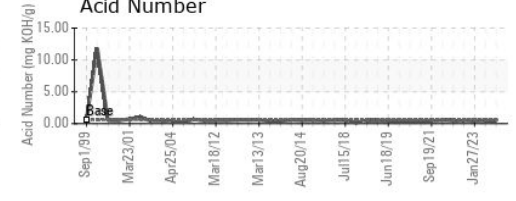
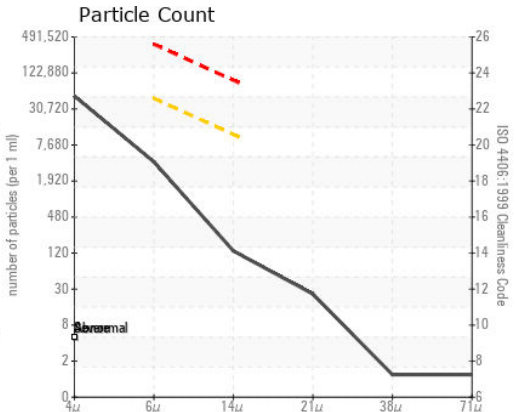
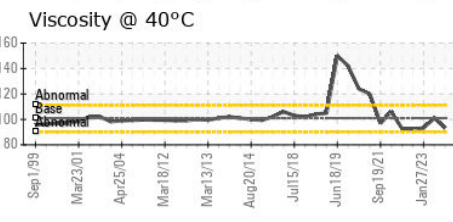
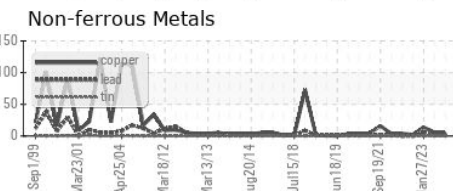
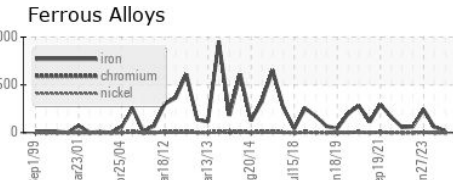
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>5	<b>NEG</b>	NEG	.5%
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	101	<b>93.2</b>	101	93.3

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**  
**Sample No.** : WC0866300 **Received** : 04 Oct 2023 2330 Regional Road #3, Door: BOSC8  
**Lab Number** : **02586757** **Diagnosed** : 05 Oct 2023 NANTICOKE, ON  
**Unique Number** : 5655823 **Diagnostician** : Kevin Marson CA N0A 1L0  
**Test Package** : IND 2 ( Additional Tests: PQ ) Contact: Tom Walden  
 Thomas.Walden@stelco.com

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.