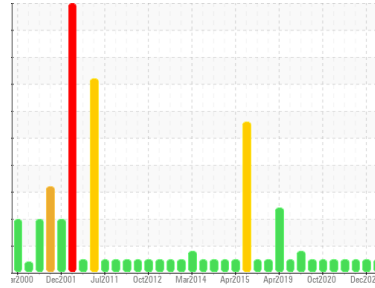




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**PUMPHOUSE/AIR COMPRESSORS**  
 Machine Id  
**C - 3 Air Compressor Turbine OB**

Component  
**Lube System**  
 Fluid  
**PETRO CANADA HYDREX AW 100 (2 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>WC0785651</b>	WC0772653	WC0732721
Sample Date	Client Info		<b>27 Jan 2023</b>	14 Dec 2022	10 Aug 2022
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>	NORMAL	NORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*	>DFLT	<b>0</b>	0	0
Iron	ppm	ASTM D5185(m)	>20	<b>14</b>	11
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Lead	ppm	ASTM D5185(m)	>20	<b>2</b>	2
Copper	ppm	ASTM D5185(m)	>20	<b>18</b>	15
Tin	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1
Antimony	ppm	ASTM D5185(m)		<b>&lt;1</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

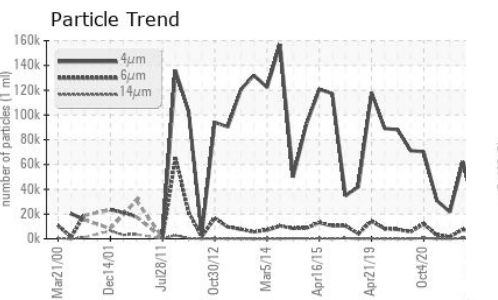
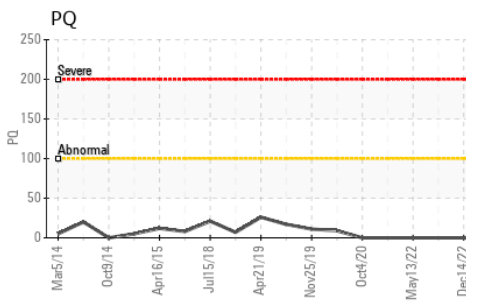
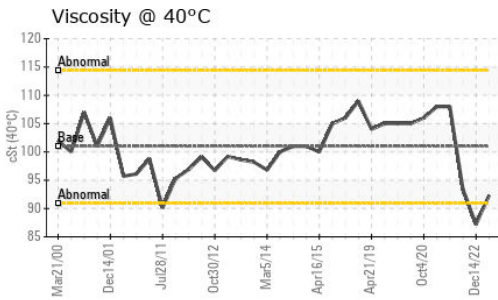
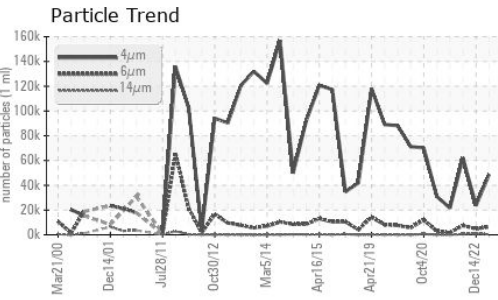
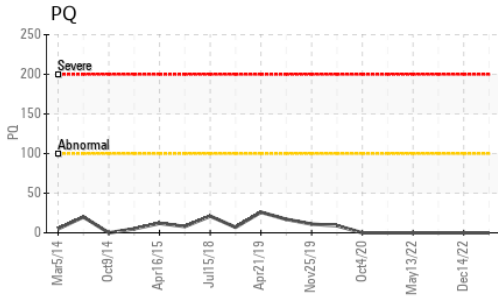
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<b>1</b>	<1
Barium	ppm	ASTM D5185(m)	0	<b>7</b>	8
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0
Calcium	ppm	ASTM D5185(m)	50	<b>45</b>	48
Phosphorus	ppm	ASTM D5185(m)	330	<b>357</b>	349
Zinc	ppm	ASTM D5185(m)	430	<b>370</b>	386
Sulfur	ppm	ASTM D5185(m)	760	<b>2923</b>	2875
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

### CONTAMINANTS

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

### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>48688</b>	23724	62107
Particles >6µm	ASTM D7647	>40000	<b>6543</b>	4772	7493
Particles >14µm	ASTM D7647	>10000	<b>422</b>	823	531
Particles >21µm	ASTM D7647	>2500	<b>112</b>	288	106
Particles >38µm	ASTM D7647	>640	<b>2</b>	8	1
Particles >71µm	ASTM D7647	>160	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/22/20	<b>23/20/16</b>	22/19/17	23/20/16

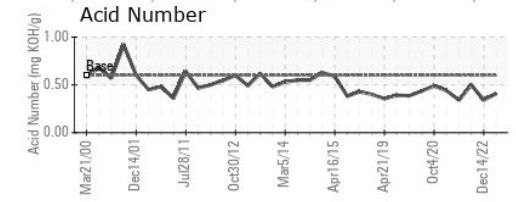
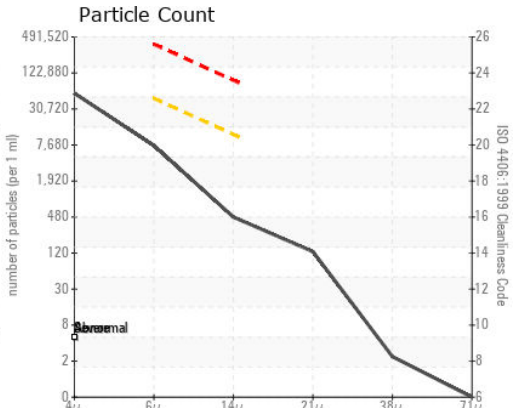
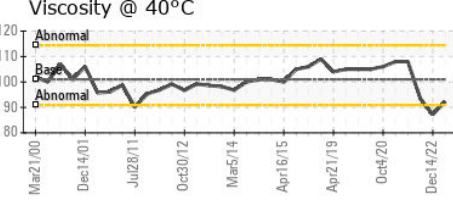
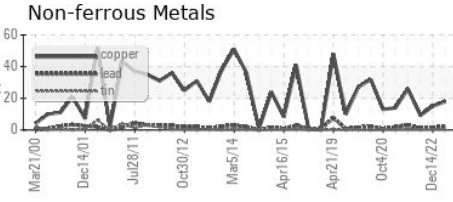
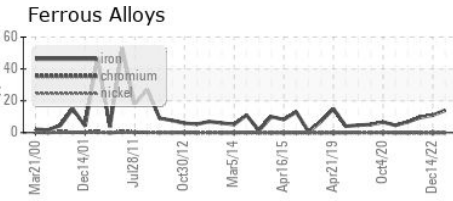


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	<b>0.41</b>	0.34	0.50
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	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*	>1	<b>NEG</b>	NEG	NEG
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>92.3</b>	87.2	93.4

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**  
**Sample No.** : WC0785651 **Received** : 27 Jan 2023 2330 Regional Road #3, Door: BOSC8  
**Lab Number** : **02536006** **Diagnosed** : 30 Jan 2023 NANTICOKE, ON  
**Unique Number** : 5525006 **Diagnostician** : Kevin Marson CA N0A 1L0  
**Test Package** : IND 2 ( Additional Tests: PQ )  
 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.

Contact: Tom Walden  
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 F: (519)587-7702