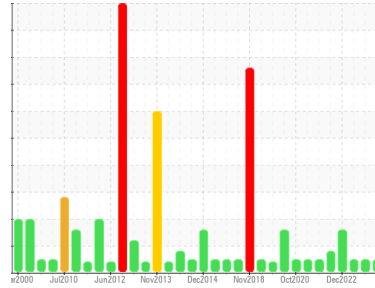




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**PUMPHOUSE/HOOD COOLING PUMPS**  
 Machine Id  
**C - Hood Cooling Turbine IB**

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>WC0850130</b>	WC0824416	WC0785678
Sample Date	Client Info		<b>16 Aug 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>	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>&lt;1</b>	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0
Nickel	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0
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>&lt;1</b>	6
Copper	ppm	ASTM D5185(m)	>20	<b>1</b>	4
Tin	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2
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>0</b>	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0
Calcium	ppm	ASTM D5185(m)	50	<b>46</b>	72
Phosphorus	ppm	ASTM D5185(m)	330	<b>324</b>	321
Zinc	ppm	ASTM D5185(m)	430	<b>396</b>	374
Sulfur	ppm	ASTM D5185(m)	760	<b>2267</b>	2170
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

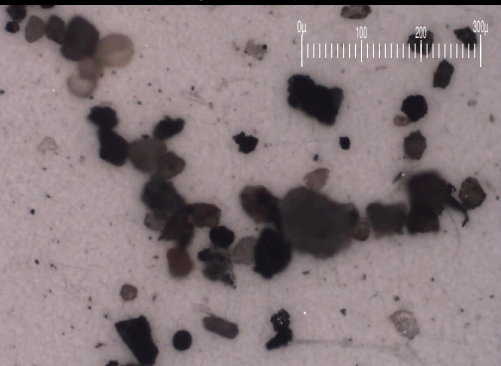
## CONTAMINANTS

	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>	0
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0

## FLUID CLEANLINESS

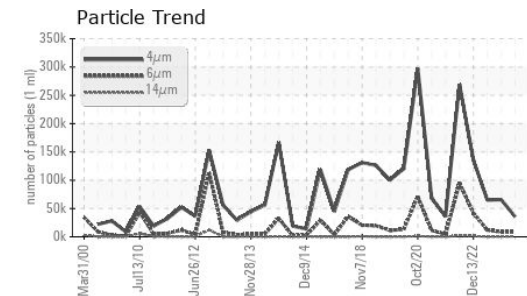
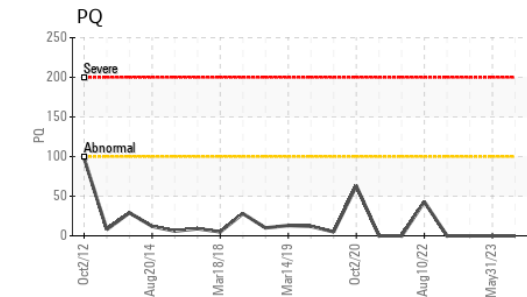
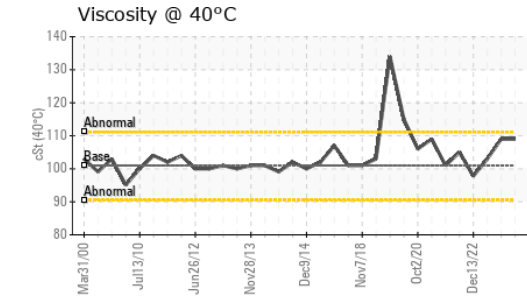
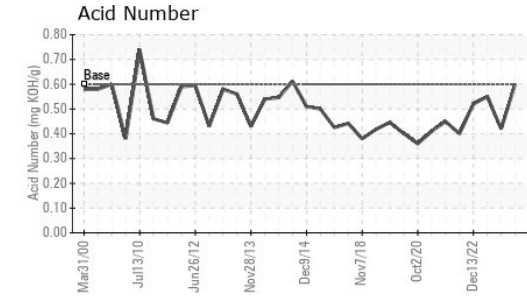
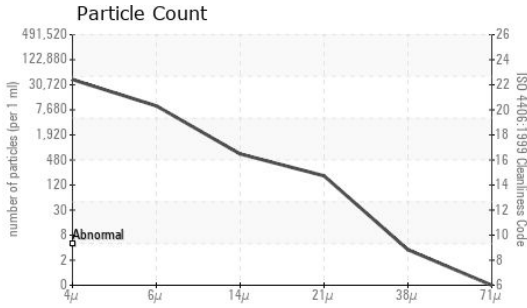
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>35596</b>	65689	64901
Particles >6µm	ASTM D7647	>10240000	<b>8327</b>	8692	12111
Particles >14µm	ASTM D7647	>10240000	<b>588</b>	378	114
Particles >21µm	ASTM D7647	>2560000	<b>176</b>	64	10
Particles >38µm	ASTM D7647	>640000	<b>3</b>	1	0
Particles >71µm	ASTM D7647	>160000	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/30/30	<b>22/20/16</b>	23/20/16	23/21/14

Particle Filter (Magn: 100 x)





# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	<b>0.60</b>	0.42	0.55
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>VLITE</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>VLITE</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	.2%
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>109</b>	109	103

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter						



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **STELCO - BOSC - Basic Oxygen Slab Caster**  
**Sample No.** : WC0850130 **Received** : 16 Aug 2023 2330 Regional Road #3, Door: BOSC8  
**Lab Number** : **02576248** **Diagnosed** : 17 Aug 2023 NANTICOKE, ON  
**Unique Number** : 5629308 **Diagnostician** : Kevin Marson CA N0A 1L0  
**Test Package** : IND 2 ( Additional Tests: Bottom, BottomAnalysis, FilterPatch, PQ, PrtFilter, TAN Man ) **Contact:** Tom Walden  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. **Thomas.Walden@stelco.com**  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. **T: (519)587-4541**  
 Validity of results and interpretation are based on the sample and information as supplied. **F: (519)587-7702**