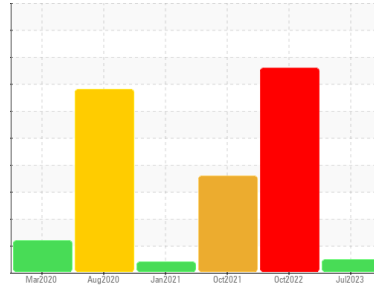


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**OR1050**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0078575</b>	PC0061669	PC0052167
Sample Date	Client Info	<b>21 Jul 2023</b>	17 Oct 2022	04 Oct 2021
Machine Age	hrs	<b>7514</b>	0	5690
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Not Chngd</b>	N/A	Not Chngd
Sample Status		<b>NORMAL</b>	SEVERE	SEVERE

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >20	<b>3</b>	3	5
Chromium	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m) >10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >10	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >75	<b>1</b>	2	4
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	2
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>2</b>	3	9
Calcium	ppm	ASTM D5185(m) 50	<b>57</b>	72	119
Phosphorus	ppm	ASTM D5185(m) 330	<b>401</b>	393	514
Zinc	ppm	ASTM D5185(m) 430	<b>388</b>	436	600
Sulfur	ppm	ASTM D5185(m) 760	<b>823</b>	821	1086
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

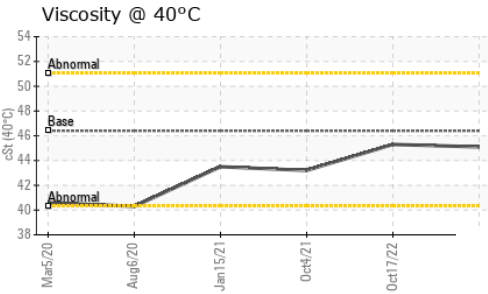
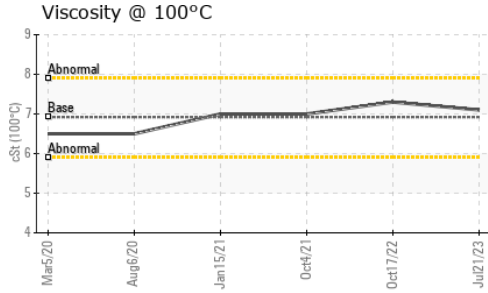
## CONTAMINANTS

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

## VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG

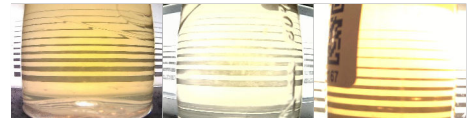
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	<b>45.1</b>	45.3	43.2
Visc @ 100°C	cSt	ASTM D7279(m)	6.92	<b>7.1</b>	7.3	7
Viscosity Index (VI)	Scale	ASTM D2270*	104	<b>116</b>	123	120

SAMPLE IMAGES		method	limit/base	current	history1	history2
---------------	--	--------	------------	---------	----------	----------

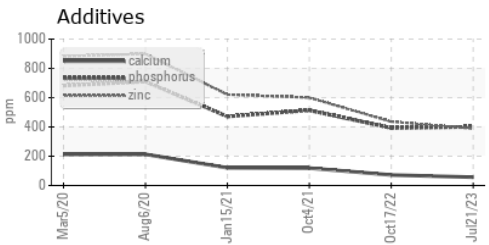
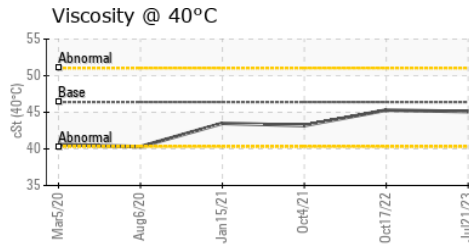
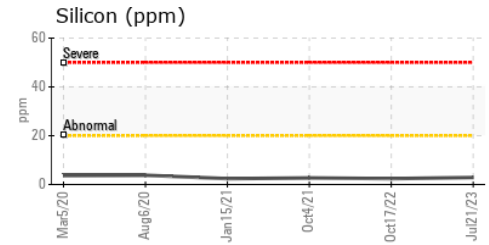
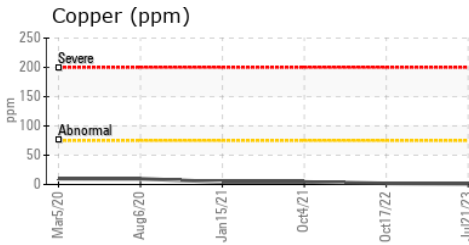
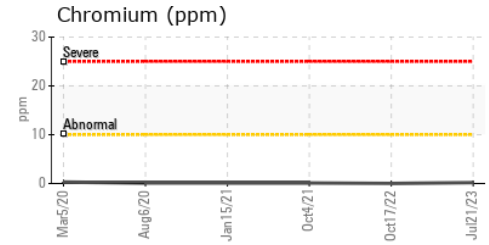
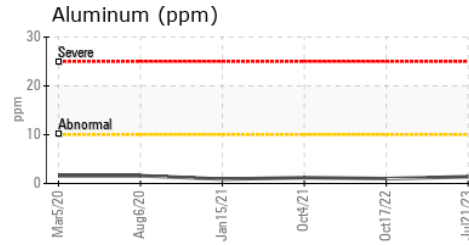
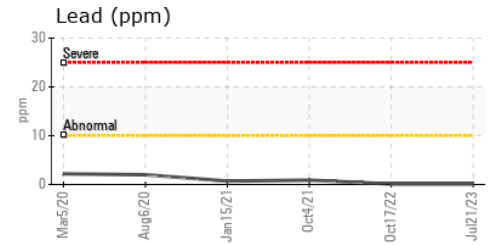
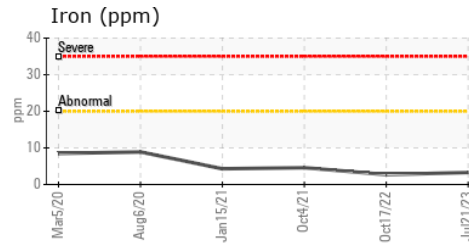
Color



Bottom



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations  
**Sample No.** : PC0078575 **Received** : 25 Jul 2023 151 Ram Forest Rd,  
**Lab Number** : 02571965 **Diagnosed** : 25 Jul 2023 Stouffville, ON  
**Unique Number** : 5617016 **Diagnostician** : Wes Davis CA L4A 2G8  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

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: Shannon Abbott  
 sabbott@gipi.com  
 T: (905)750-5900  
 F: