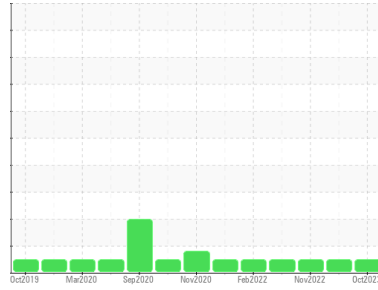


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**CR227**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON UHP 5W40 (28 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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>PC</b>	PC0048351	PC0056634	
Sample Date	Client Info	<b>25 Oct 2023</b>	12 Apr 2023	15 Nov 2022	
Machine Age	hrs	Client Info	<b>0</b>	21390	20841
Oil Age	hrs	Client Info	<b>0</b>	500	0
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	<b>20</b>	5	4
Chromium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	0	0
Nickel	ppm ASTM D5185(m) >4	<b>0</b>	0	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm ASTM D5185(m) >3	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185(m) >20	<b>3</b>	<1	1
Lead	ppm ASTM D5185(m) >40	<b>&lt;1</b>	1	1
Copper	ppm ASTM D5185(m) >330	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185(m) >15	<b>0</b>	<1	<1
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	<1
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) 65	<b>32</b>	40	33
Barium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185(m) 65	<b>61</b>	57	54
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 1160	<b>1066</b>	1093	1051
Calcium	ppm ASTM D5185(m) 820	<b>838</b>	856	830
Phosphorus	ppm ASTM D5185(m) 1160	<b>972</b>	1087	1047
Zinc	ppm ASTM D5185(m) 1260	<b>1164</b>	1206	1187
Sulfur	ppm ASTM D5185(m) 3000	<b>2727</b>	2868	2782
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>4</b>	3	3
Sodium	ppm ASTM D5185(m)	<b>5</b>	4	4
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	0	<1

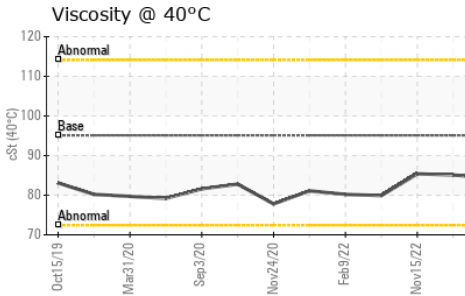
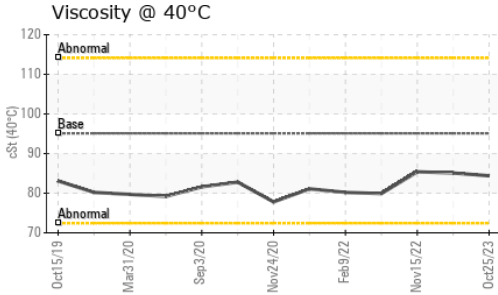
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0</b>	0	0
Nitration	Abs/cm ASTM D7624* >20	<b>9.0</b>	10.0	9.6
Sulfation	Abs/.1mm ASTM D7415* >30	<b>20.3</b>	20.4	20.9

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	<b>18.7</b>	20.0	19.9

# OIL ANALYSIS REPORT

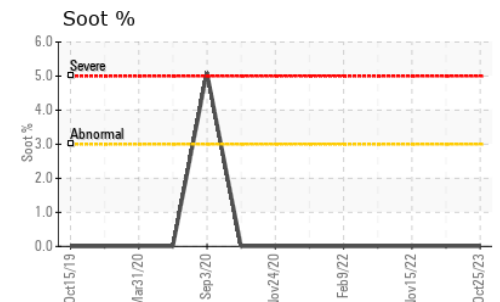
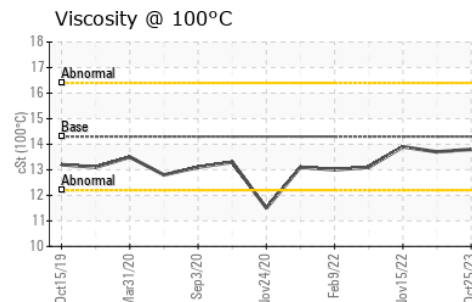
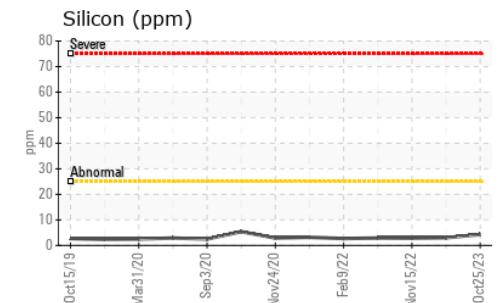
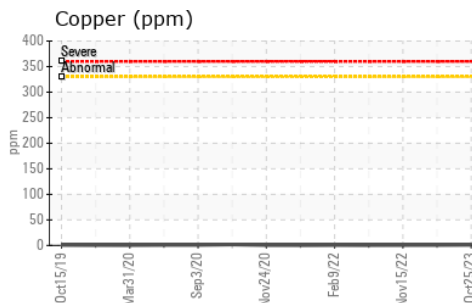
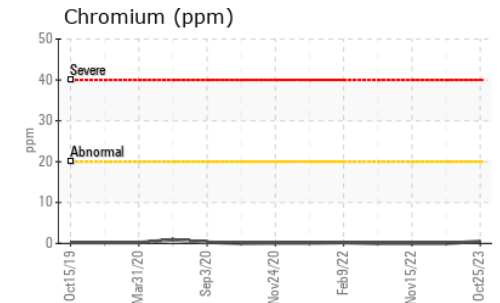
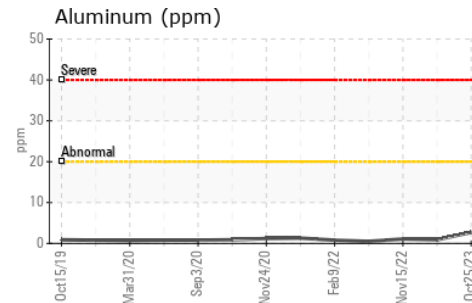
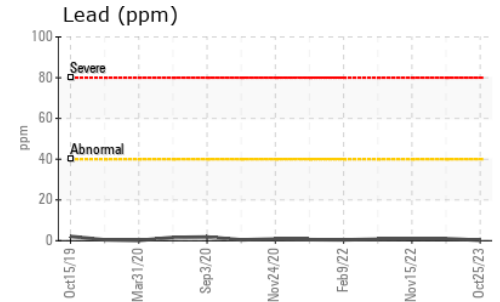
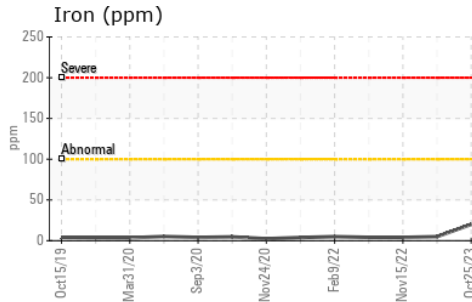


VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	<b>84.4</b>	85.1	85.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.8</b>	13.7	13.9
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>167</b>	164	167

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations  
**Sample No.** : PC **Received** : 26 Oct 2023  
**Lab Number** : 02592040 **Diagnosed** : 26 Oct 2023  
**Unique Number** : 5669119 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, 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.

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