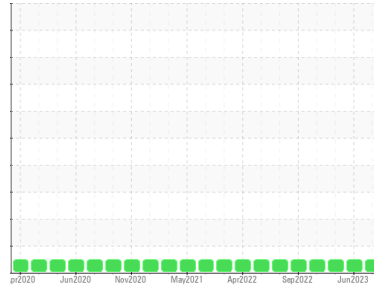


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**RST0471**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON UHP 5W40 (8 LTR)**

## 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>PC0082218</b>	PC0075315	PC0071433
Sample Date	Client Info		<b>28 Feb 2024</b>	08 Jun 2023	06 Apr 2023
Machine Age	hrs	Client Info	<b>6197</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
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
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>5</b>	6	6
Chromium	ppm	ASTM D5185(m) >20	<b>1</b>	2	2
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >40	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m) >330	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	0	0
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>43</b>	37	48
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 65	<b>52</b>	57	63
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 1160	<b>1031</b>	1044	1130
Calcium	ppm	ASTM D5185(m) 820	<b>790</b>	796	858
Phosphorus	ppm	ASTM D5185(m) 1160	<b>952</b>	973	1054
Zinc	ppm	ASTM D5185(m) 1260	<b>1099</b>	1146	1207
Sulfur	ppm	ASTM D5185(m) 3000	<b>2735</b>	2568	2799
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

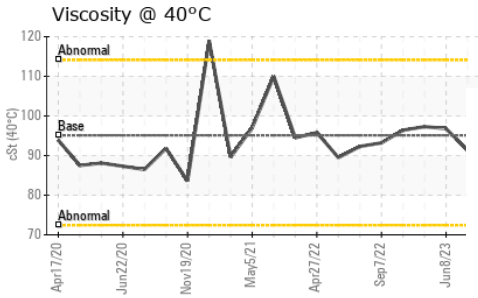
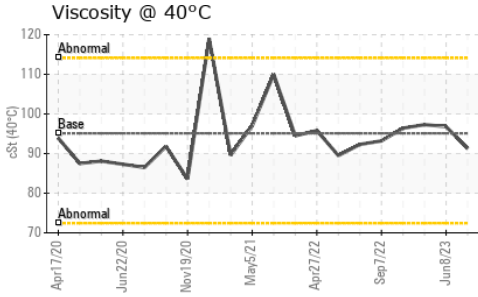
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>7</b>	7	4
Sodium	ppm	ASTM D5185(m)	<b>4</b>	5	5
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	0

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624* >20	<b>10.9</b>	12.0	12.2
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>21.3</b>	24.3	22.4

# OIL ANALYSIS REPORT

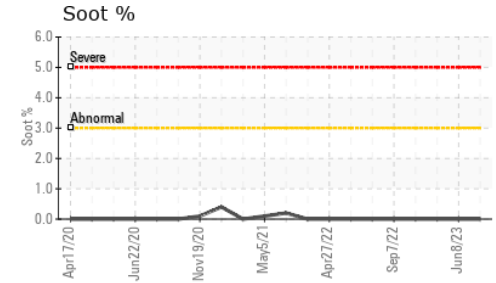
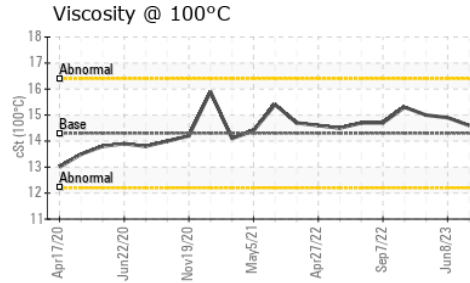
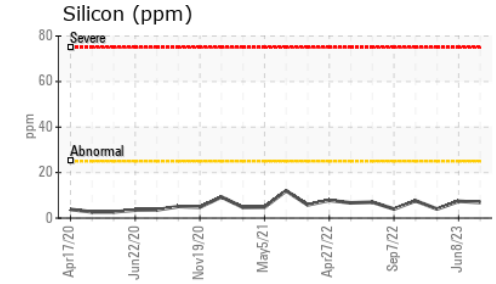
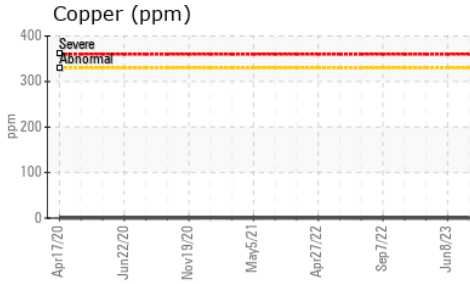
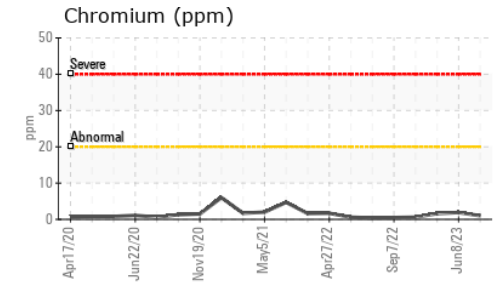
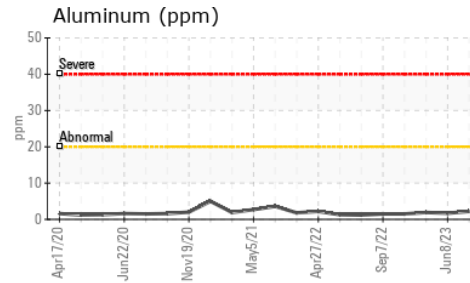
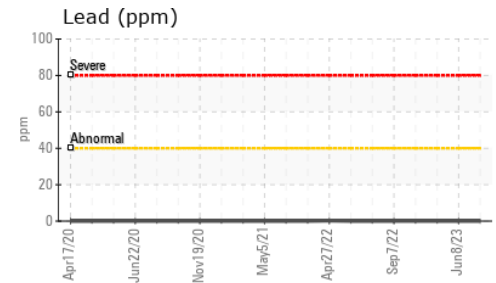
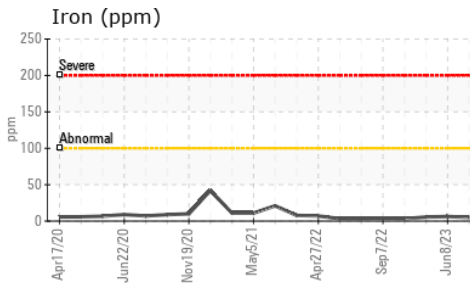


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>23.8</b>	28.4	26.2

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>91.3</b>	96.8	97.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>14.6</b>	14.9	15.0
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>166</b>	161	161

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0082218  
**Lab Number** : **02619184**  
**Unique Number** : 5736294  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations  
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 sabbott@gipi.com  
 T: (905)750-5900  
 F:

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.