

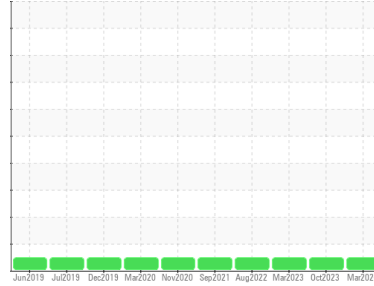
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**OR627**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON UHP 5W40 (28 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>PC0078313</b>	PC	PC0072021
Sample Date	Client Info		<b>08 Mar 2024</b>	25 Oct 2023	01 Mar 2023
Machine Age	hrs	Client Info	<b>9112</b>	0	5770
Oil Age	hrs	Client Info	<b>0</b>	0	500
Oil Changed	Client Info		<b>Changed</b>	N/A	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
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>2</b>	10	8
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	1	<1
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >25	<b>1</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>	2	<1
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	<1	<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) 65	<b>58</b>	35	40
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 65	<b>55</b>	62	58
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 1160	<b>1069</b>	1099	1074
Calcium	ppm	ASTM D5185(m) 820	<b>810</b>	825	846
Phosphorus	ppm	ASTM D5185(m) 1160	<b>1013</b>	1008	1062
Zinc	ppm	ASTM D5185(m) 1260	<b>1125</b>	1176	1148
Sulfur	ppm	ASTM D5185(m) 3000	<b>2933</b>	2727	2771
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

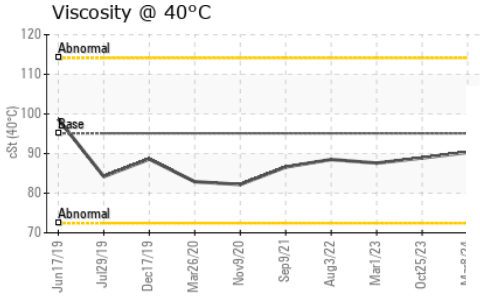
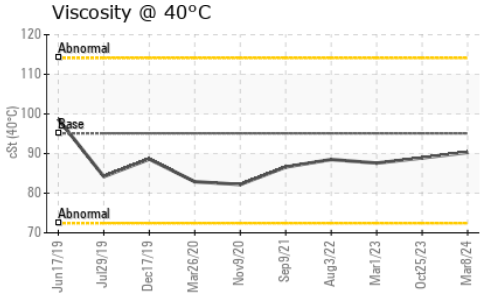
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>2</b>	4	3
Sodium	ppm	ASTM D5185(m)	<b>4</b>	4	4
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>	0.3	0.1
Nitration	Abs/cm	ASTM D7624* >20	<b>7.2</b>	10.5	10.8
Sulfation	Abs./1mm	ASTM D7415* >30	<b>19.6</b>	21.4	23.5

# OIL ANALYSIS REPORT

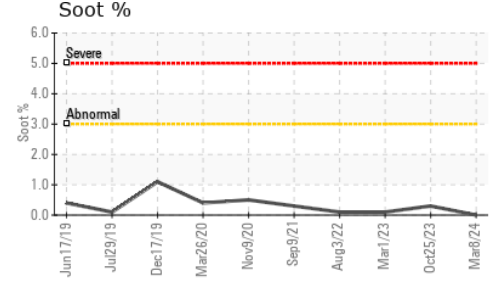
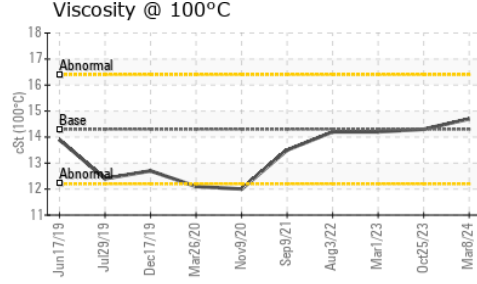
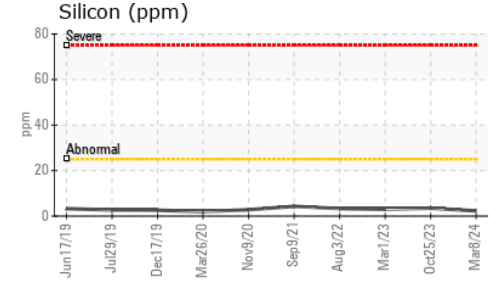
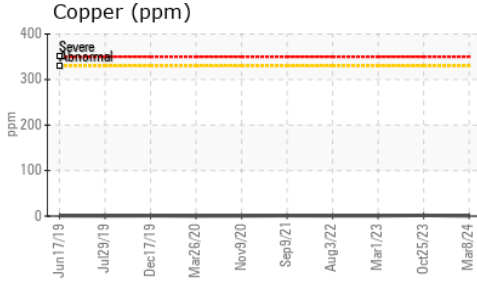
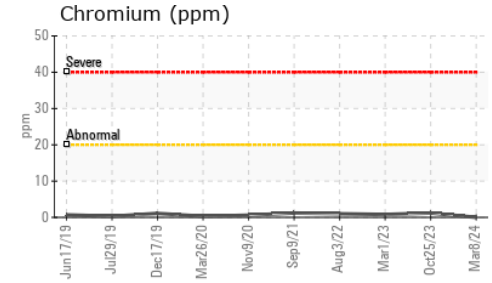
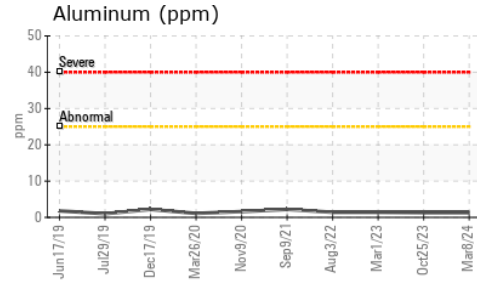
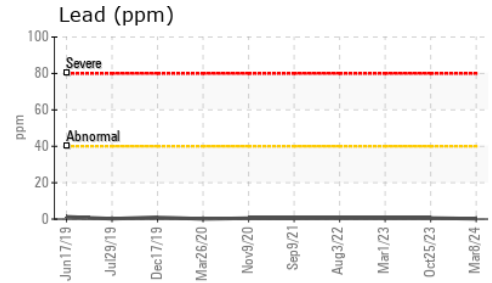
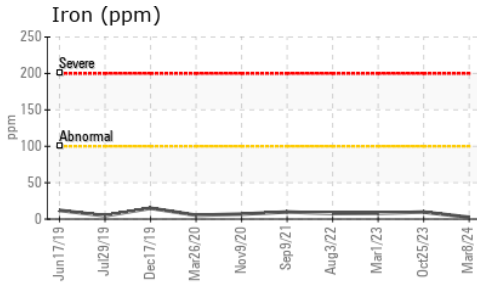


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>17.5</b>	20.5	20.8

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>90.3</b>	88.9	87.6
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>14.7</b>	14.3	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>170</b>	166	167

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0078313  
**Lab Number** : 02622638  
**Unique Number** : 5747757  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations  
 151 Ram Forest Rd,  
 Stouffville, ON  
 CA L4A 2G8  
 Contact: Bill Acton  
 bacton@gipi.com

*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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