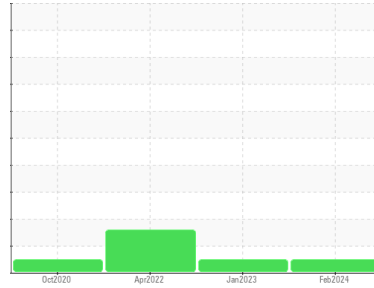


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**OR907**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON UHP 5W40 (13 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>PC0082665</b>	PC0071605	PC0060159
Sample Date	Client Info			<b>01 Feb 2024</b>	19 Jan 2023	05 Apr 2022
Machine Age	hrs	Client Info		<b>6588</b>	6087	5577
Oil Age	hrs	Client Info		<b>500</b>	500	0
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

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

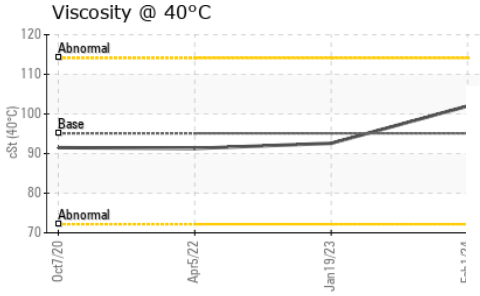
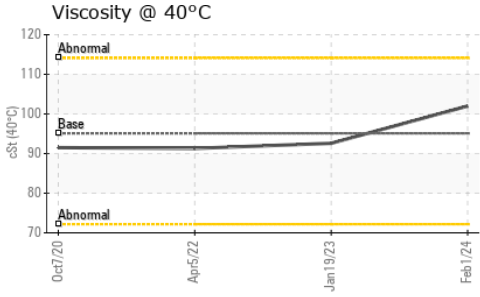
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>21</b>	18	13
Chromium	ppm	ASTM D5185(m)	>20	<b>6</b>	9	4
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>5</b>	5	3
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	3	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	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>55</b>	47	59
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	65	<b>61</b>	61	59
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	<b>1083</b>	1188	1179
Calcium	ppm	ASTM D5185(m)	820	<b>1222</b>	1097	823
Phosphorus	ppm	ASTM D5185(m)	1160	<b>1064</b>	1185	1079
Zinc	ppm	ASTM D5185(m)	1260	<b>1338</b>	1376	1253
Sulfur	ppm	ASTM D5185(m)	3000	<b>3057</b>	2957	2805
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>11</b>	19	▲ 58
Sodium	ppm	ASTM D5185(m)		<b>5</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.3</b>	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.0</b>	11.1	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.8</b>	23.3	22.2

# OIL ANALYSIS REPORT

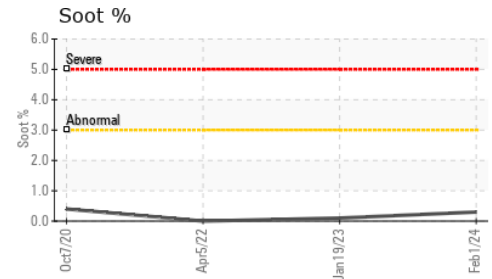
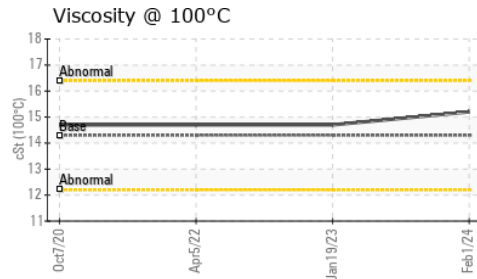
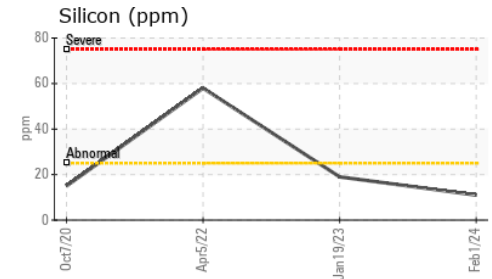
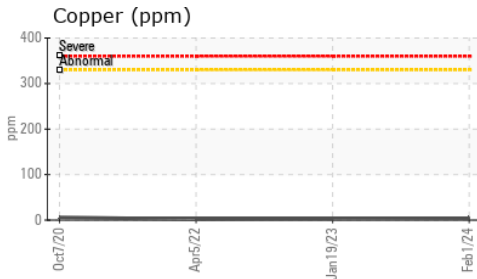
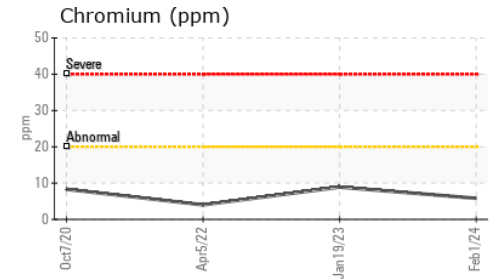
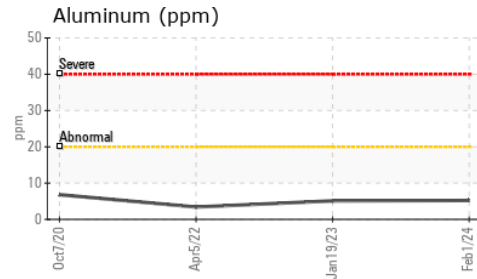
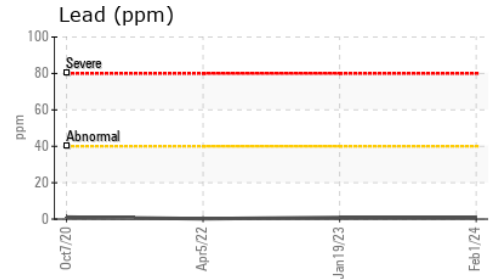
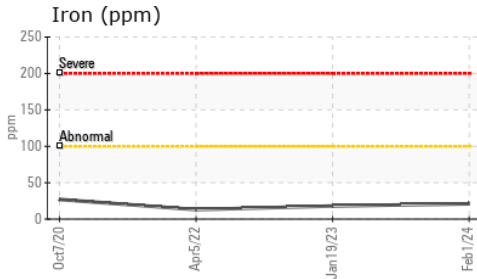


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>25.7</b>	21.9	19.3

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>102</b>	92.6	91.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>15.2</b>	14.7	14.7
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>156</b>	165	168

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0082665  
**Lab Number** : 02615542  
**Unique Number** : 5724637  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations  
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 CA L4A 2G8  
 Contact: Shannon Abbott  
 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.