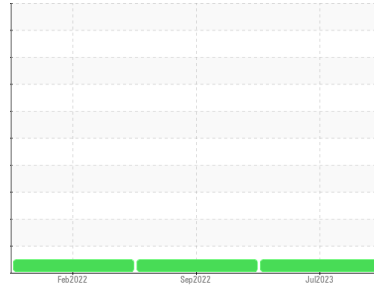


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**PD874**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA SUPREME SYNTHETIC 5W40 (--- 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>PC0078557</b>	PC0064799	PC0056381
Sample Date	Client Info			<b>17 Jul 2023</b>	30 Sep 2022	08 Feb 2022
Machine Age	hrs	Client Info		<b>0</b>	5708	5150
Oil Age	hrs	Client Info		<b>0</b>	250	0
Oil Changed	Client Info			<b>Changed</b>	Changed	Not 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>2</b>	3	3
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<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)	>15	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>125	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m)	>5	<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

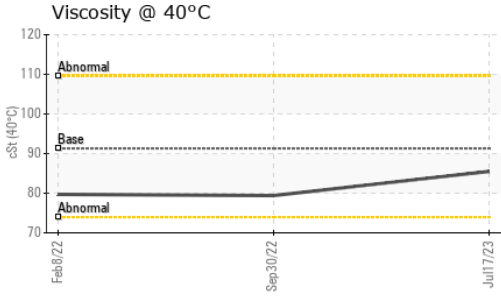
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	190	<b>42</b>	46	44
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	79	<b>54</b>	56	57
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	564	<b>1093</b>	1089	1162
Calcium	ppm	ASTM D5185(m)	993	<b>791</b>	816	803
Phosphorus	ppm	ASTM D5185(m)	763	<b>1045</b>	1086	1089
Zinc	ppm	ASTM D5185(m)	835	<b>1148</b>	1189	1236
Sulfur	ppm	ASTM D5185(m)	2536	<b>2784</b>	2838	2894
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>60	<b>2</b>	4	5
Sodium	ppm	ASTM D5185(m)		<b>8</b>	10	9
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<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>7.5</b>	8.6	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.1</b>	20.3	21.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.8</b>	18.7	18.9

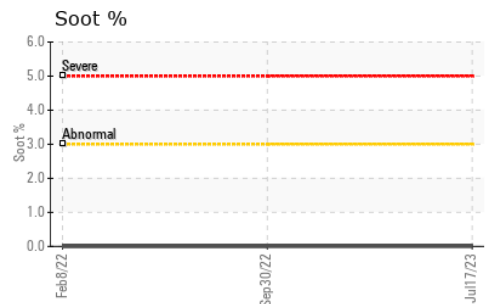
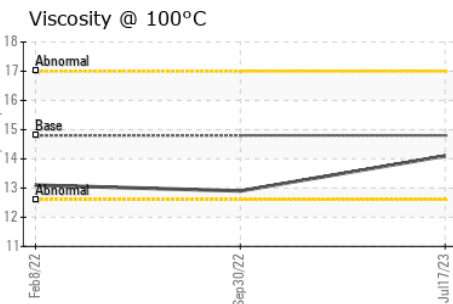
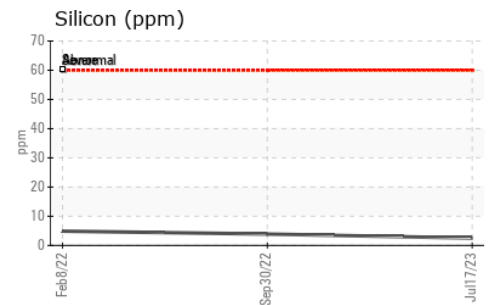
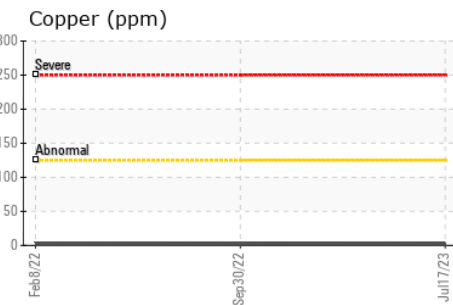
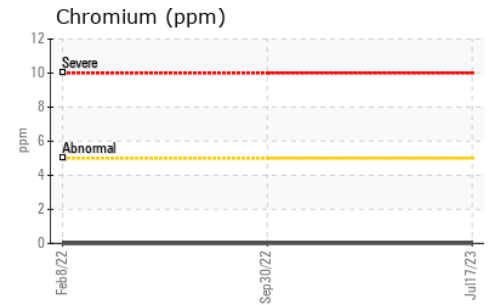
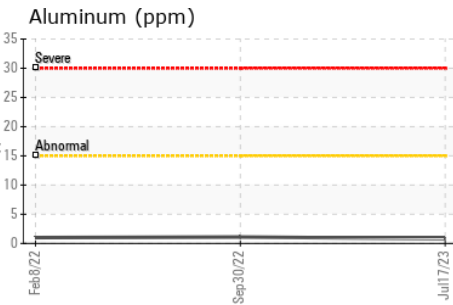
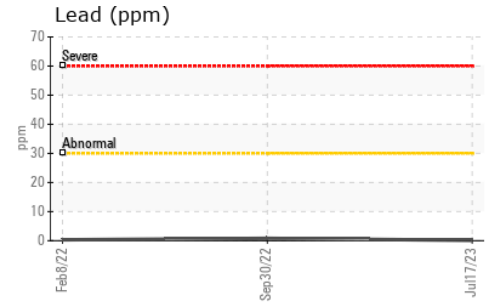
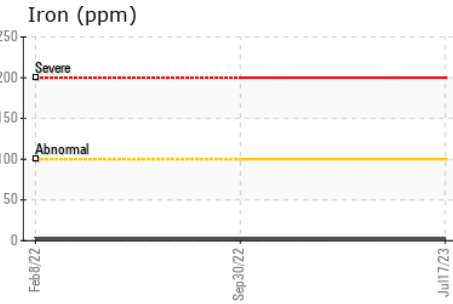
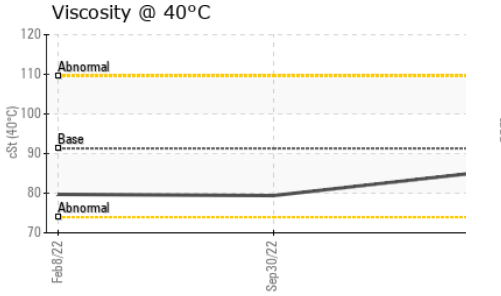
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	91.3	<b>85.5</b>	79.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	<b>14.1</b>	12.9
Viscosity Index (VI)	Scale	ASTM D2270*	170	<b>170</b>	163

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations  
**Sample No.** : PC0078557 **Received** : 25 Jul 2023  
**Lab Number** : 02571853 **Diagnosed** : 25 Jul 2023  
**Unique Number** : 5616904 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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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F: