



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**1482**  
 Component  
**Rear Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0913038</b>	WC0895816	WC0873864
Sample Date		Client Info		<b>20 Mar 2024</b>	24 Jan 2024	01 Nov 2023
Machine Age	hrs	Client Info		<b>30929</b>	30459	29946
Oil Age	hrs	Client Info		<b>470</b>	513	458
Filter Age	hrs	Client Info		<b>470</b>	0	458
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>17</b>	22	26
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	3
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	4
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	4
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	1	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

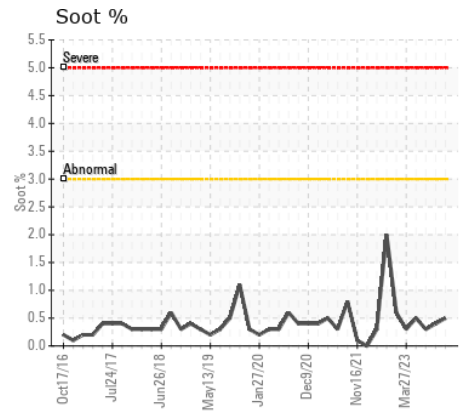
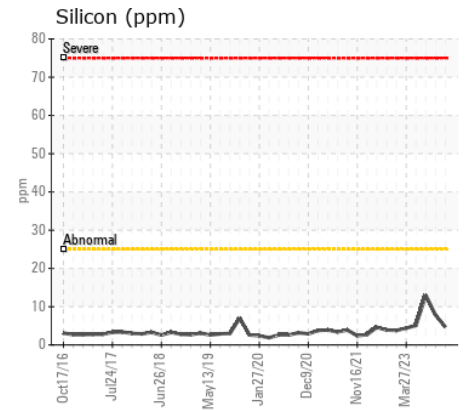
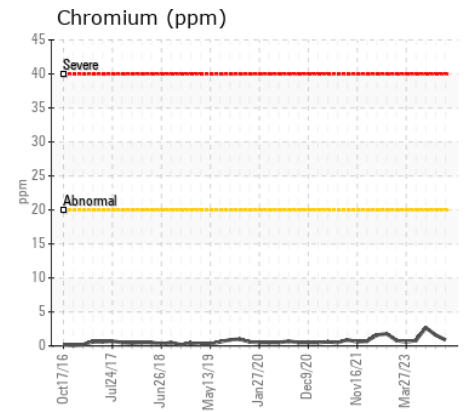
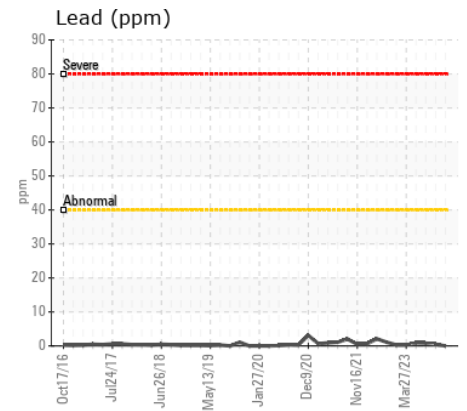
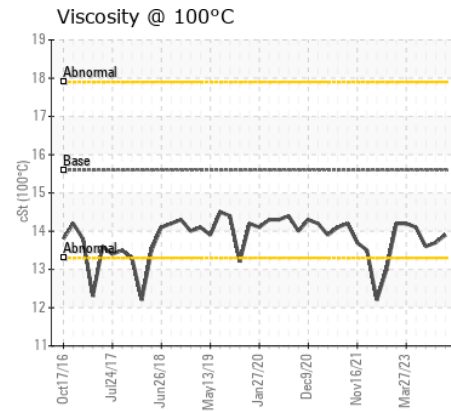
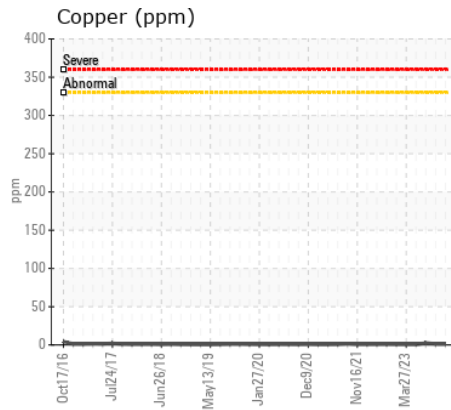
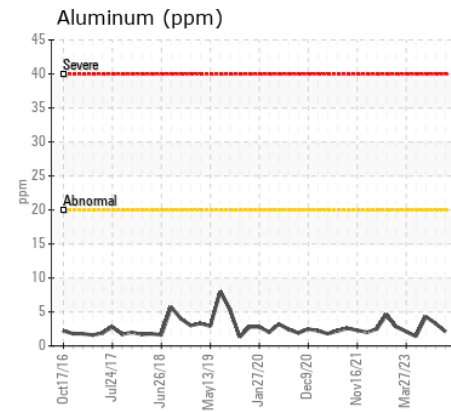
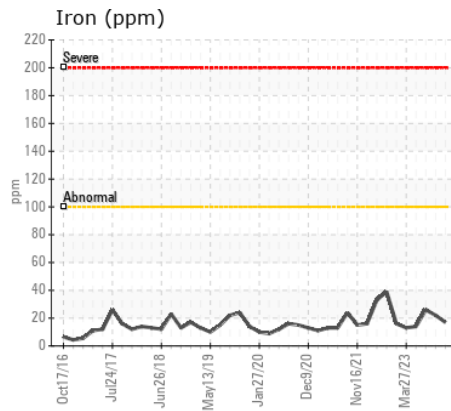
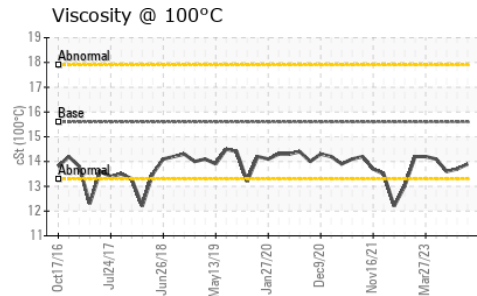
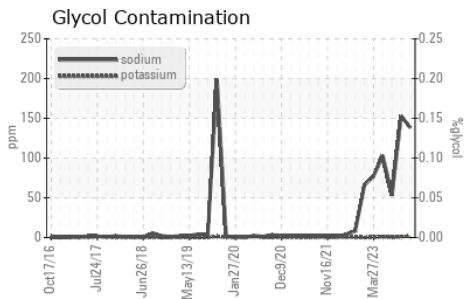
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	8	13
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	NEG
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	9.6	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.5</b>	22.1	22.6
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>138</b>	153	53
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	5	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>62</b>	63	61
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	2
Magnesium	ppm	ASTM D5185(m)	1010	<b>933</b>	912	922
Calcium	ppm	ASTM D5185(m)	1070	<b>1026</b>	1026	1010
Phosphorus	ppm	ASTM D5185(m)	1150	<b>960</b>	957	985
Zinc	ppm	ASTM D5185(m)	1270	<b>1153</b>	1152	1167
Sulfur	ppm	ASTM D5185(m)	2060	<b>2477</b>	2684	2526
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.3</b>	20.9	21.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.9</b>	13.7	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0913038 **Received** : 03 Apr 2024  
**Lab Number** : 02626319 **Tested** : 03 Apr 2024  
**Unique Number** : 5759451 **Diagnosed** : 03 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**KINGSTON TRANSIT**  
 1181 JOHN COUNTER BLVD  
 KINGSTON, ON  
 CA K7K 6C7  
 Contact: Brent Gunter  
 bgunter@cityofkingston.ca  
 T: (613)546-4291  
 F: (613)542-1504

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.