



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**1510**  
 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>WC0938937</b>	WC0925682	WC0905418
Sample Date		Client Info		<b>30 May 2024</b>	15 Apr 2024	22 Feb 2024
Machine Age	hrs	Client Info		<b>28859</b>	28455	27933
Oil Age	hrs	Client Info		<b>404</b>	522	458
Filter Age	hrs	Client Info		<b>404</b>	522	458
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>16</b>	20	18
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	3	4
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	5	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

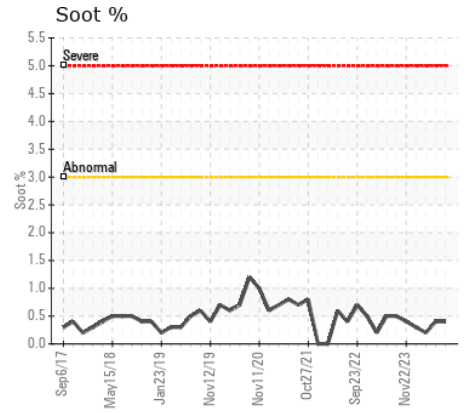
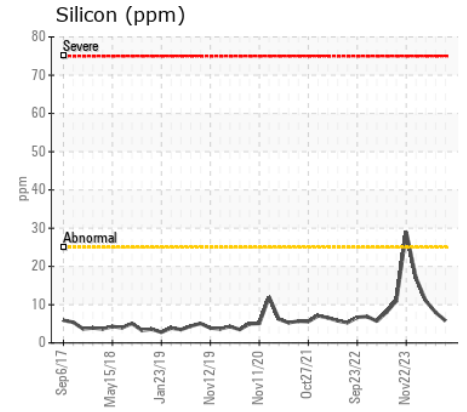
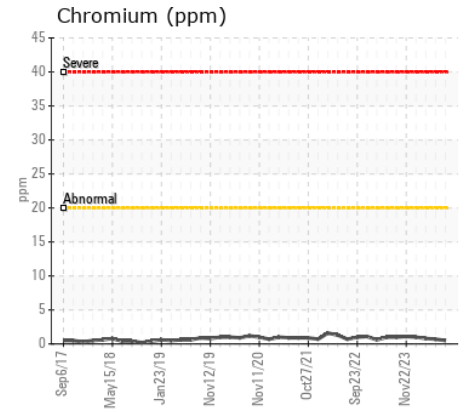
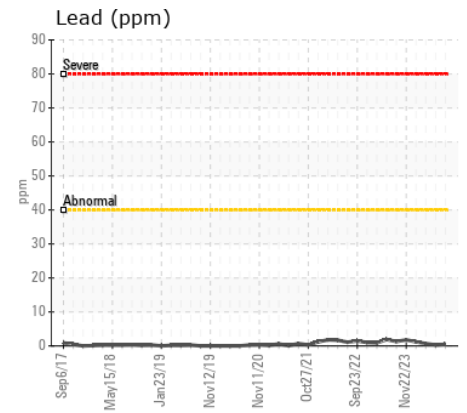
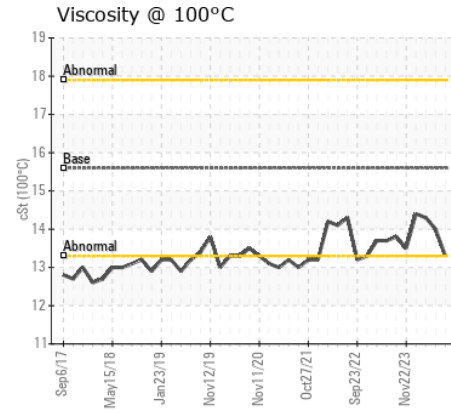
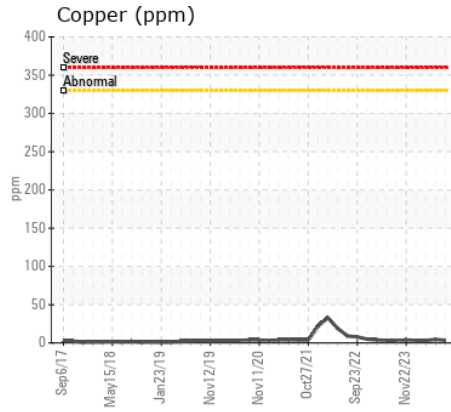
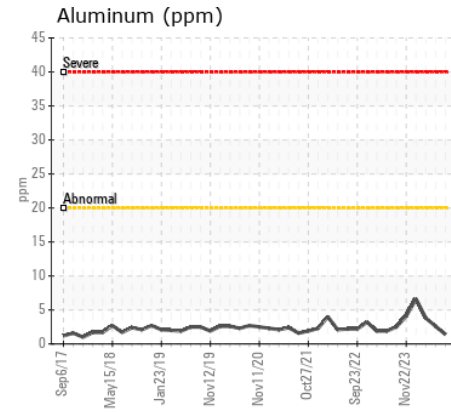
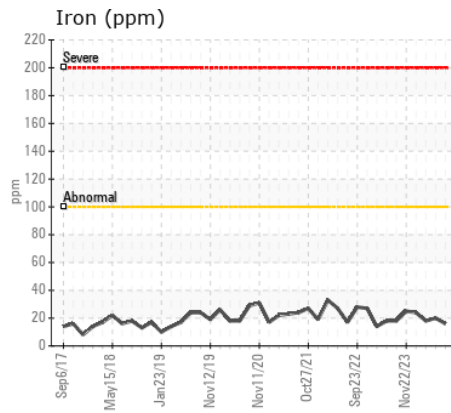
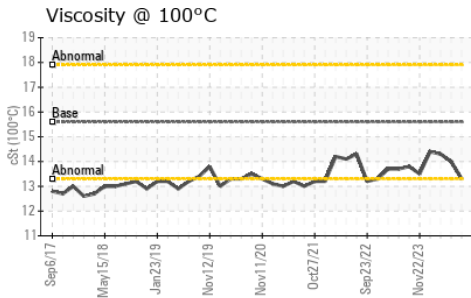
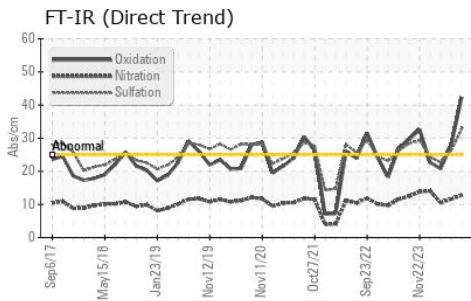
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	8	11
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	3
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>	0.0	0.0
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	0.4	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.7</b>	11.6	10.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>32.7</b>	26.3	22.7
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>49</b>	91	255
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	3	5
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	63	67
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>921</b>	990	952
Calcium	ppm	ASTM D5185(m)	1070	<b>1075</b>	1063	1033
Phosphorus	ppm	ASTM D5185(m)	1150	<b>913</b>	959	977
Zinc	ppm	ASTM D5185(m)	1270	<b>1128</b>	1182	1162
Sulfur	ppm	ASTM D5185(m)	2060	<b>2383</b>	2378	2657
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>42.3</b>	27.8	20.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.3</b>	14.0	14.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0938937  
**Lab Number** : 02640183  
**Unique Number** : 5789345  
**Test Package** : MOB 1

**Received** : 06 Jun 2024  
**Tested** : 06 Jun 2024  
**Diagnosed** : 06 Jun 2024 - Wes Davis

**KINGSTON TRANSIT**  
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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.