



# 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>WC0925682</b>	WC0905418	WC0895799
Sample Date		Client Info		<b>15 Apr 2024</b>	22 Feb 2024	12 Jan 2024
Machine Age	hrs	Client Info		<b>28455</b>	27933	27475
Oil Age	hrs	Client Info		<b>522</b>	458	447
Filter Age	hrs	Client Info		<b>522</b>	458	447
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ATTENTION	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>20</b>	18	24
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	4	7
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185(m)	>330	<b>5</b>	3	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

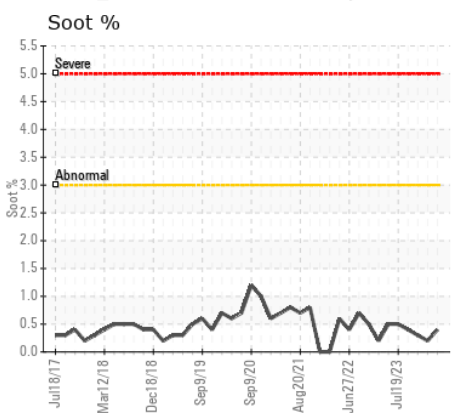
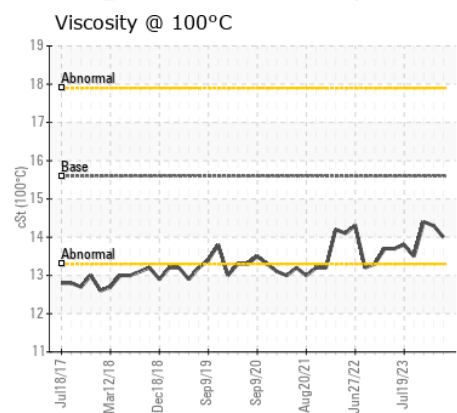
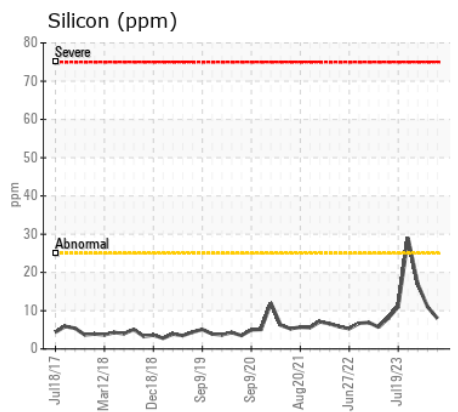
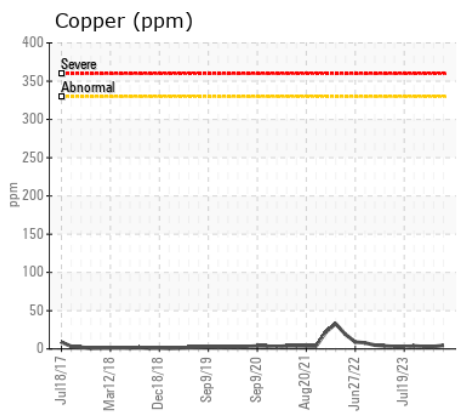
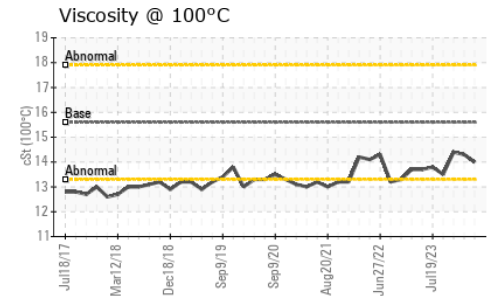
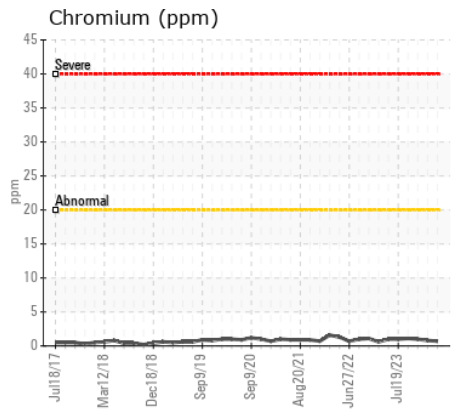
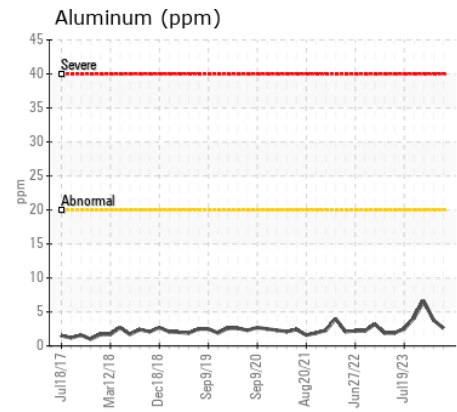
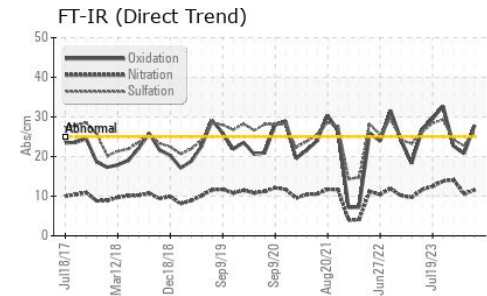
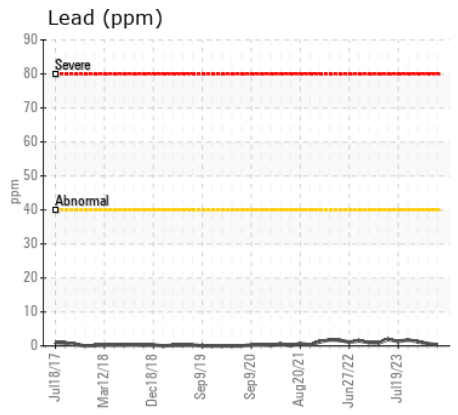
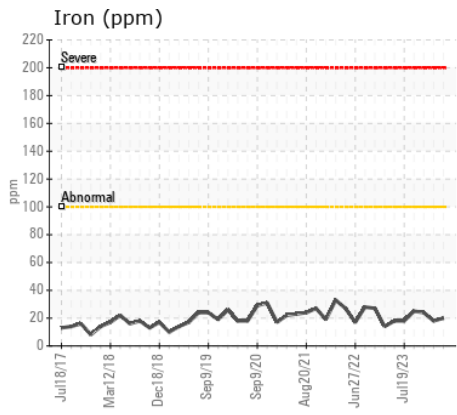
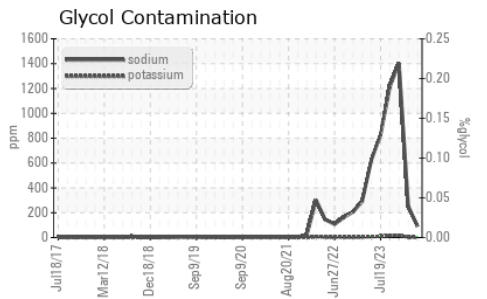
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	11	17
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	3	18
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	0.0
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.6</b>	10.5	14.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.3</b>	22.7	24.3
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>91</b>	● 255	● 1405
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	5	24
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>63</b>	67	107
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>990</b>	952	881
Calcium	ppm	ASTM D5185(m)	1070	<b>1063</b>	1033	1006
Phosphorus	ppm	ASTM D5185(m)	1150	<b>959</b>	977	837
Zinc	ppm	ASTM D5185(m)	1270	<b>1182</b>	1162	1116
Sulfur	ppm	ASTM D5185(m)	2060	<b>2378</b>	2657	2762
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>27.8</b>	20.8	22.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.0</b>	14.3	14.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0925682  
**Lab Number** : 02631279  
**Unique Number** : 5772432  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**Received** : 25 Apr 2024  
**Tested** : 25 Apr 2024  
**Diagnosed** : 26 Apr 2024 - Kevin Marson

**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.