



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



Machine Id  
**24**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON UHP 5W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0066779</b>	PC0064246	PC0061328
Sample Date		Client Info		<b>17 Jun 2024</b>	25 Jul 2023	08 Jun 2022
Machine Age	hrs	Client Info		<b>2615</b>	2310	1803
Oil Age	hrs	Client Info		<b>315</b>	250	250
Filter Age	hrs	Client Info		<b>315</b>	250	250
Oil Changed		Client Info		<b>Changed</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Changed</b>	Not Chngd	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	<b>40</b>	17	20
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>3</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>150	<b>5</b>	3	8
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

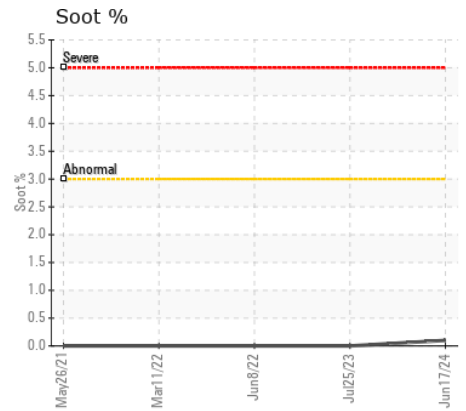
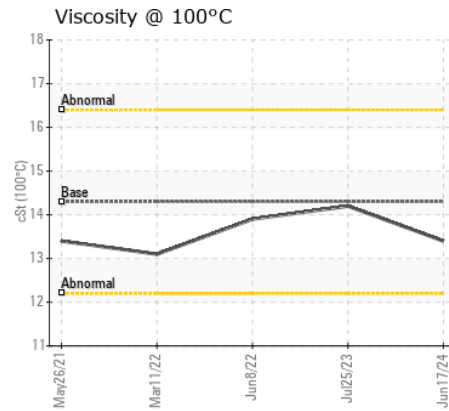
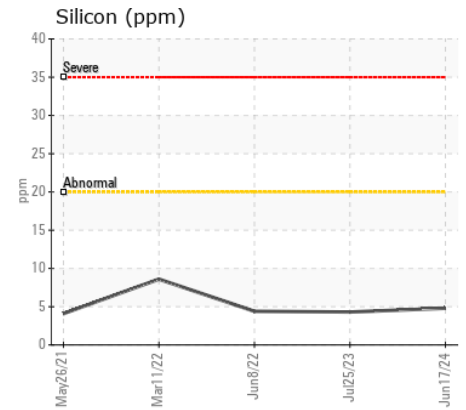
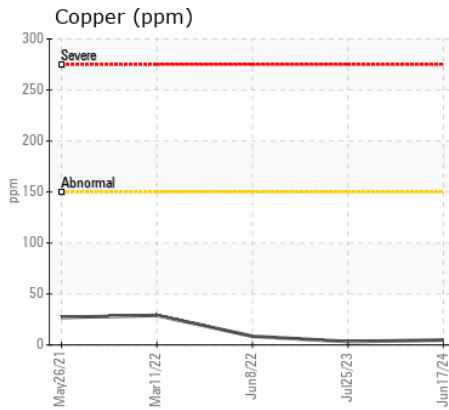
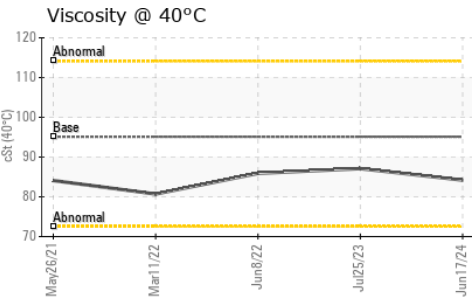
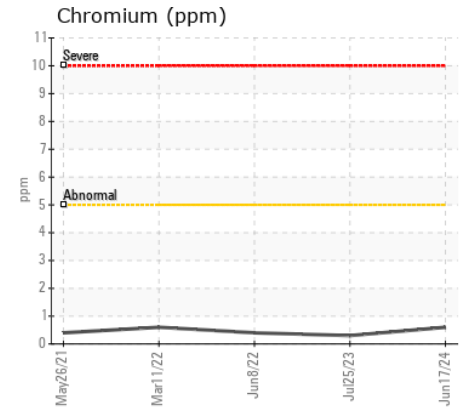
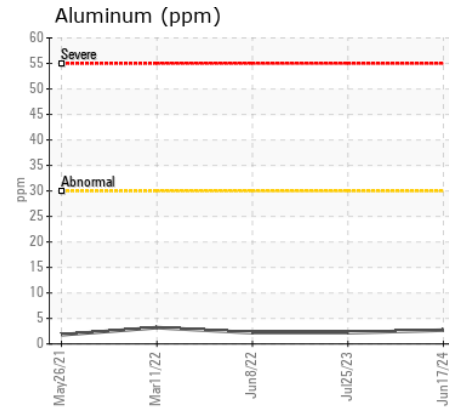
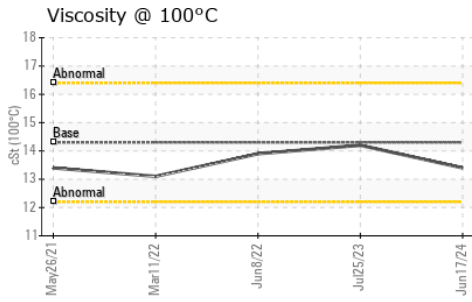
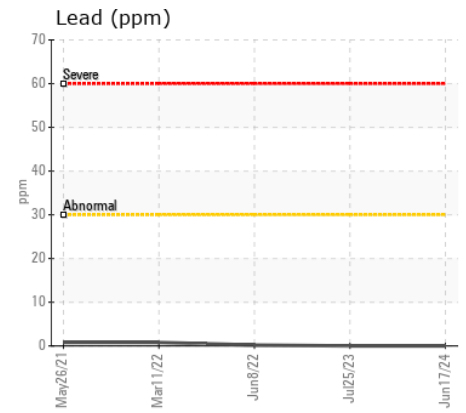
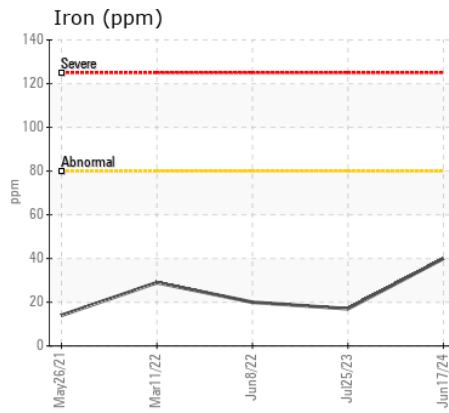
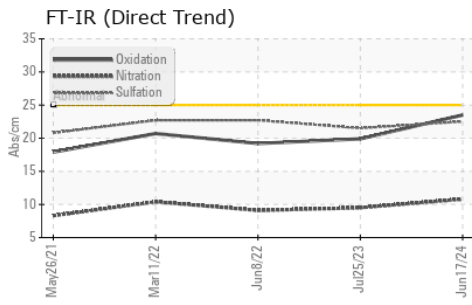
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>5</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	<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		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.8</b>	9.5	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.5</b>	21.5	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>5</b>	5	4
Boron	ppm	ASTM D5185(m)	65	<b>30</b>	39	37
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	65	<b>60</b>	60	56
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	<b>1081</b>	1119	1110
Calcium	ppm	ASTM D5185(m)	820	<b>817</b>	794	828
Phosphorus	ppm	ASTM D5185(m)	1160	<b>923</b>	1015	1048
Zinc	ppm	ASTM D5185(m)	1260	<b>1175</b>	1158	1223
Sulfur	ppm	ASTM D5185(m)	3000	<b>2507</b>	2684	2742
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>23.5</b>	19.9	19.2
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	<b>84.2</b>	87.1	85.9
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.4</b>	14.2	13.9
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>161</b>	168	166



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0066779 **Received** : 27 Jun 2024  
**Lab Number** : 02644302 **Tested** : 27 Jun 2024  
**Unique Number** : 5801841 **Diagnosed** : 27 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**CITY OF KIMBERLEY**  
 340 SPOKANE ST  
 KIMBERLEY, BC  
 CA V1A 2E8  
 Contact: Service Manager  
 ddrouin@kimberley.ca  
 T: (250)427-9675  
 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.