



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**1066**  
 Component  
**Rear Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (24 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0081939</b>	PC0081595	PC0077858
Sample Date		Client Info		<b>09 May 2024</b>	21 Feb 2024	04 Dec 2023
Machine Age	kms	Client Info		<b>824455</b>	812329	796939
Oil Age	kms	Client Info		<b>11933</b>	15045	14149
Filter Age	kms	Client Info		<b>11933</b>	15045	14149
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>64</b>	56	60
Chromium	ppm	ASTM D5185(m)	>20	<b>3</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>1</b>	1	<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>8</b>	2	5
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	4	5
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

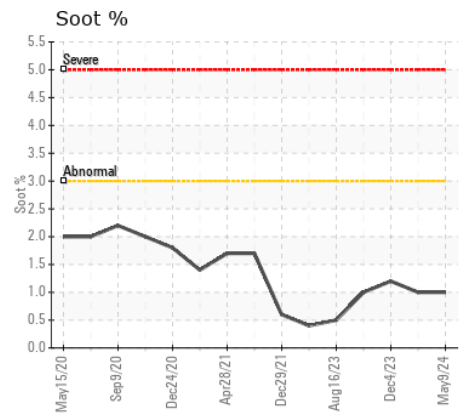
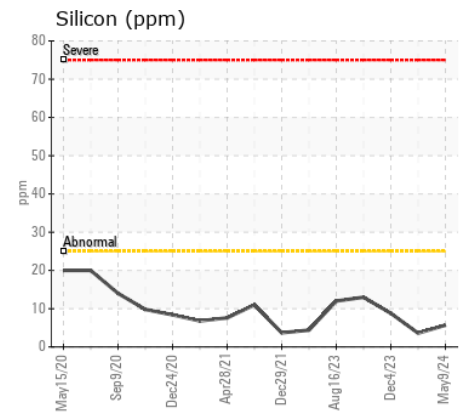
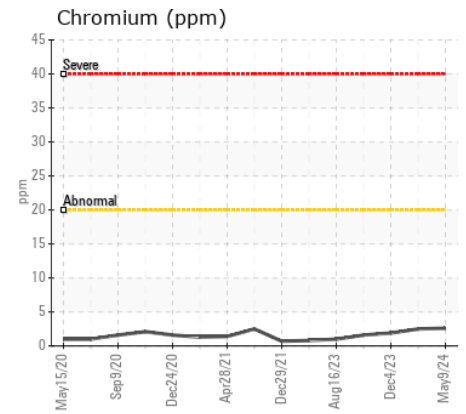
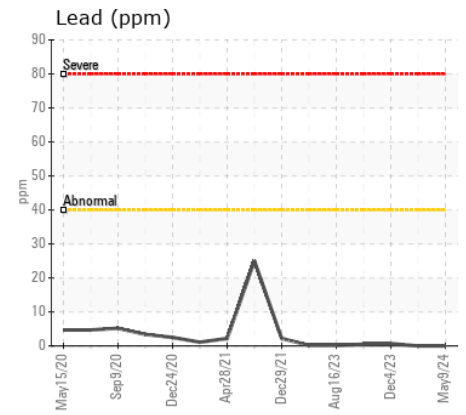
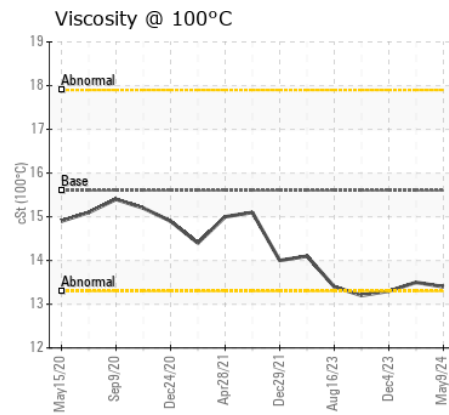
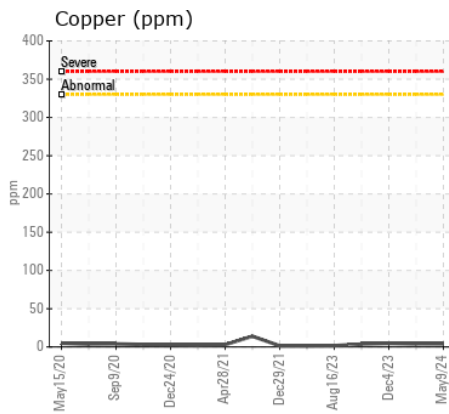
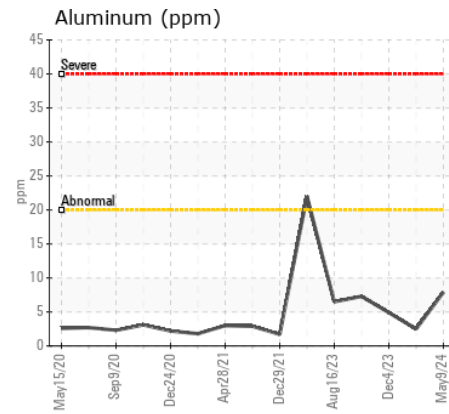
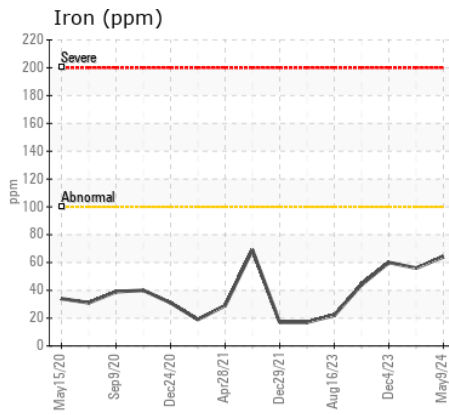
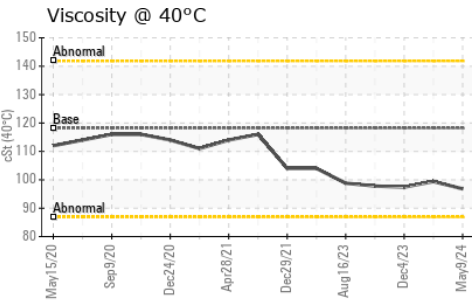
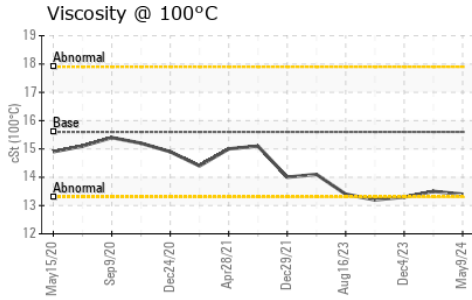
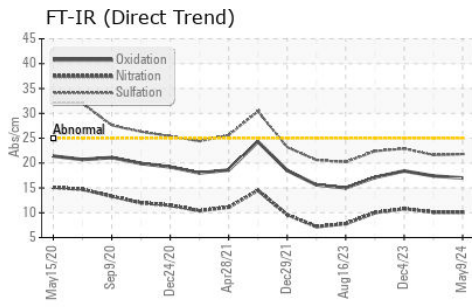
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	4	9
Potassium	ppm	ASTM D5185(m)	>20	<b>0</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		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>1</b>	1	1.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.1</b>	10.1	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.8</b>	21.6	22.9
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>10</b>	6	10
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>62</b>	62	62
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>1006</b>	1008	1008
Calcium	ppm	ASTM D5185(m)	1070	<b>1115</b>	1150	1192
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1043</b>	1013	1057
Zinc	ppm	ASTM D5185(m)	1270	<b>1218</b>	1243	1292
Sulfur	ppm	ASTM D5185(m)	2060	<b>2451</b>	2461	2550
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.0</b>	17.4	18.4
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>96.8</b>	99.4	97.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.4</b>	13.5	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>138</b>	135	135



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0081939 **Received** : 29 May 2024  
**Lab Number** : 02638335 **Tested** : 29 May 2024  
**Unique Number** : 5787497 **Diagnosed** : 29 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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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