



# OIL ANALYSIS REPORT

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

Machine Id  
**INTERNATIONAL 51958**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0915477</b>	WC0892050	WC0904900
Sample Date		Client Info		<b>21 Apr 2024</b>	11 Mar 2024	18 Feb 2024
Machine Age	mls	Client Info		<b>536204</b>	488324	454270
Oil Age	mls	Client Info		<b>30406</b>	0	0
Filter Age	mls	Client Info		<b>30406</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>14</b>	16	23
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</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>	3	6
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	1	2
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	1	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	NONE

## CONTAMINATION

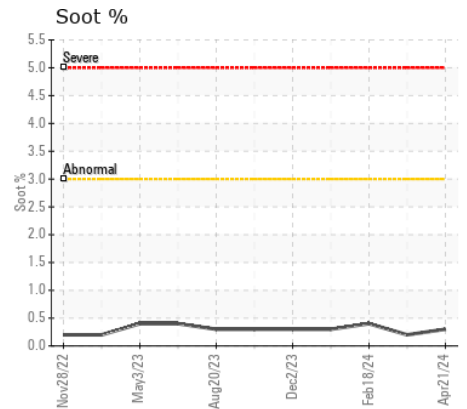
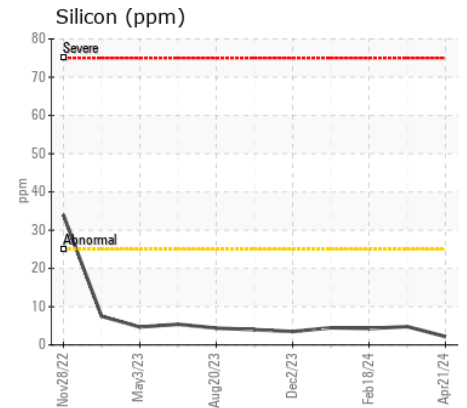
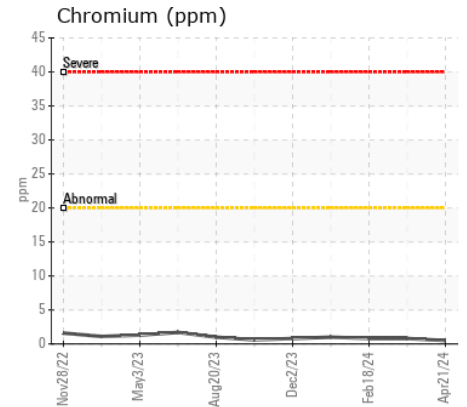
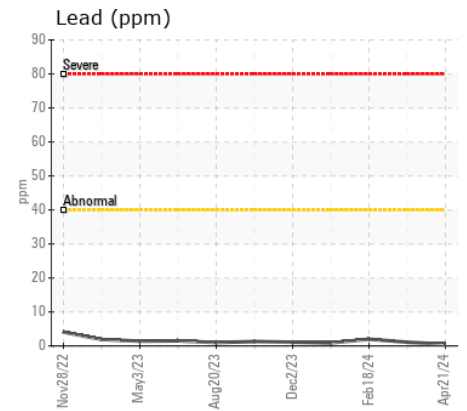
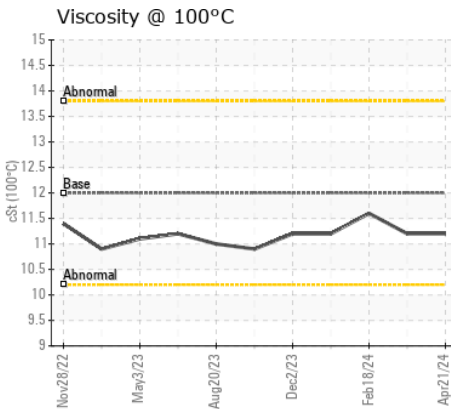
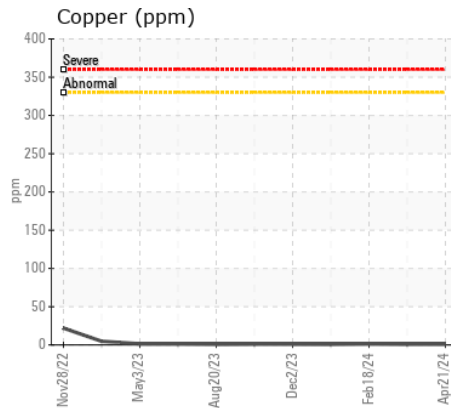
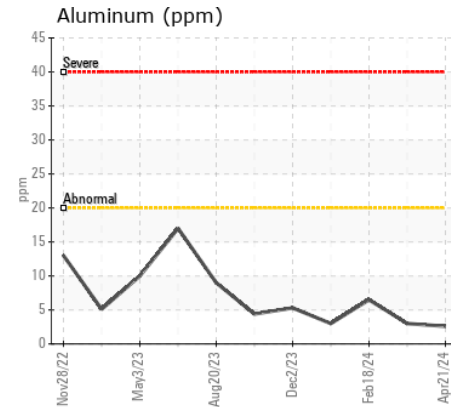
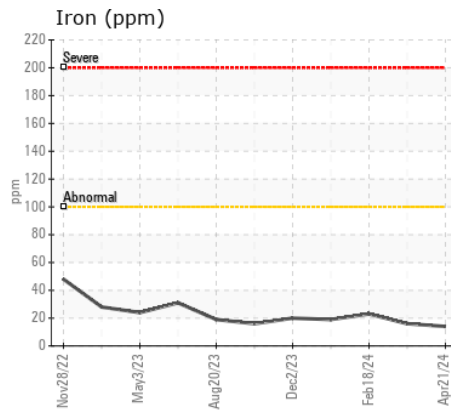
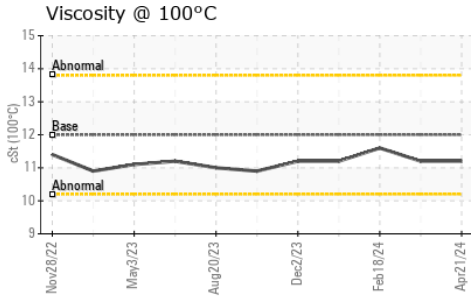
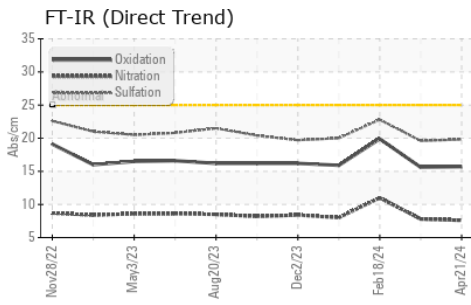
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	5	4
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	3	6
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>0.3</b>	0.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.6</b>	7.8	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	19.6	22.8
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>2</b>	1	1
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	5	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>62</b>	65	64
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	950	<b>1010</b>	998	1038
Calcium	ppm	ASTM D5185(m)	1050	<b>1094</b>	1111	1139
Phosphorus	ppm	ASTM D5185(m)	995	<b>988</b>	1030	1081
Zinc	ppm	ASTM D5185(m)	1180	<b>1226</b>	1216	1275
Sulfur	ppm	ASTM D5185(m)	2600	<b>2357</b>	2650	2616
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.7</b>	15.6	19.9
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.2</b>	11.2	11.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0915477 **Received** : 30 Apr 2024  
**Lab Number** : 02632263 **Tested** : 30 Apr 2024  
**Unique Number** : 5773416 **Diagnosed** : 30 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

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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.