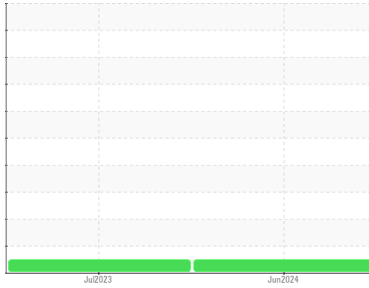


# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Area  
**(1522) Rear Load**  
 Machine Id  
**REL216523**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (10 GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0122780</b>	PCA0090696	---
Sample Date	Client Info			<b>21 Jun 2024</b>	03 Jul 2023	---
Machine Age	hrs	Client Info		<b>7829</b>	4227	---
Oil Age	hrs	Client Info		<b>7829</b>	3677	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method			<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	<b>18</b>	45	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	2	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	2	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	12	---
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>8</b>	11	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

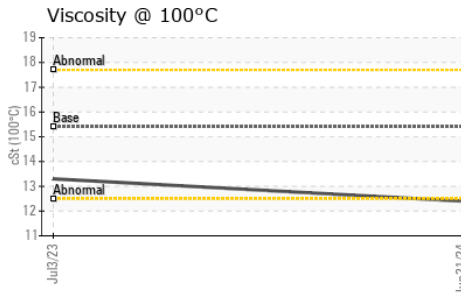
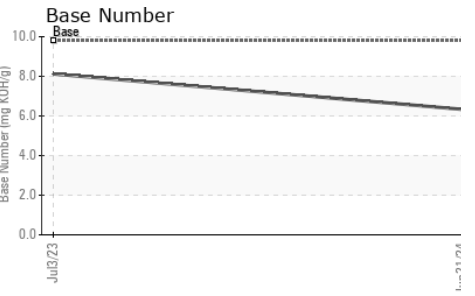
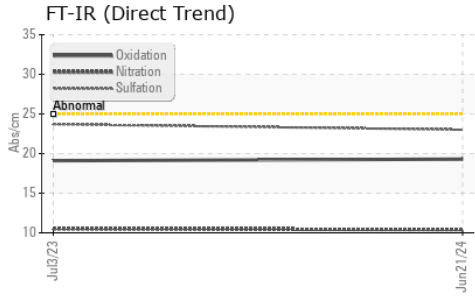
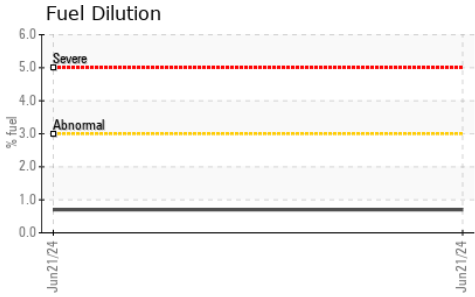
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>7</b>	13	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	2	---
Molybdenum	ppm	ASTM D5185m	60	<b>68</b>	63	---
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	1010	<b>909</b>	892	---
Calcium	ppm	ASTM D5185m	1070	<b>1116</b>	1127	---
Phosphorus	ppm	ASTM D5185m	1150	<b>885</b>	972	---
Zinc	ppm	ASTM D5185m	1270	<b>1260</b>	1223	---
Sulfur	ppm	ASTM D5185m	2060	<b>2567</b>	2494	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	5	---
Sodium	ppm	ASTM D5185m		<b>1</b>	0	---
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	30	---
Fuel	%	ASTM D3524	>3.0	<b>0.7</b>	<1.0	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	<b>0.7</b>	1.6	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.4</b>	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	23.7	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.3</b>	19.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>6.33</b>	8.12	---

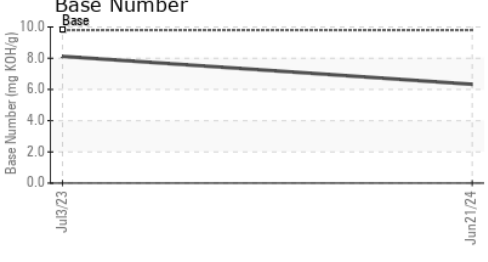
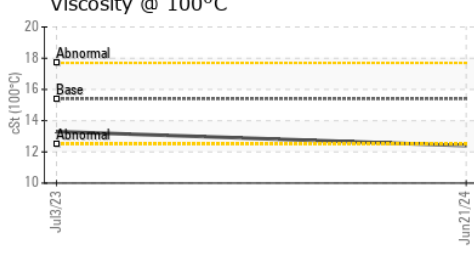
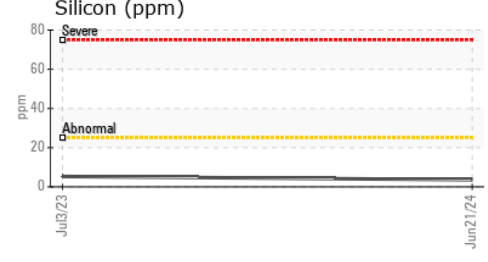
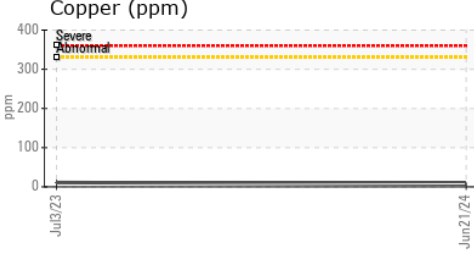
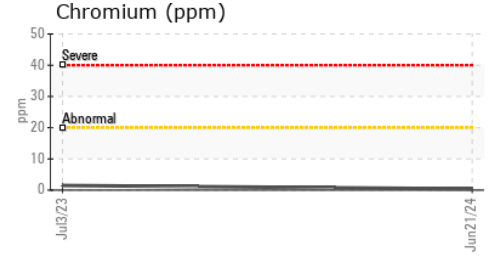
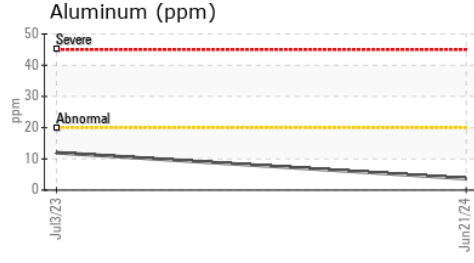
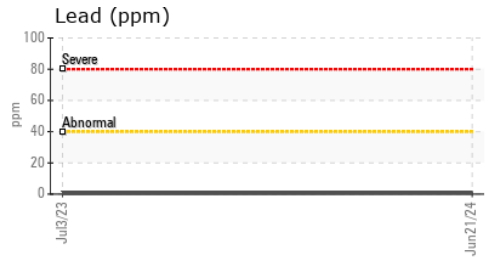
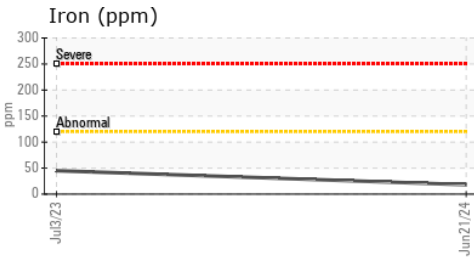
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.4</b>	13.3	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0122780      **Received** : 26 Jun 2024  
**Lab Number** : **06221426**      **Tested** : 01 Jul 2024  
**Unique Number** : 11099623      **Diagnosed** : 01 Jul 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

**UMM - Shop 401 - Norton**  
 186 South Washington Street  
 Norton, MA  
 US 02766  
 Contact: P Cohen  
 pcohen@win-waste.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)