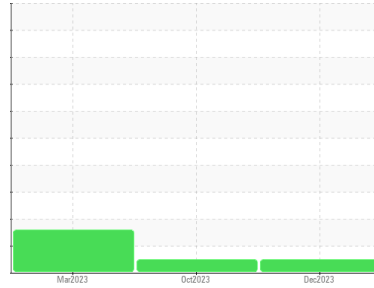


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Area  
**Walgreens - Tractor**  
 Machine for  
**[Walgreens - Tractor] 136A63362**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

**DIAGNOSIS**
**Recommendation**

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: mileage is correct. to many digits. tech added tenths. )

**Wear**

All component wear rates are normal.

**Contamination**

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

**Fluid Condition**

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

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0105404</b>	PCA0105414	PCA0093821
Sample Date	Client Info		<b>18 Dec 2023</b>	19 Oct 2023	27 Mar 2023
Machine Age	mls	Client Info	<b>80373</b>	65579	19645
Oil Age	mls	Client Info	<b>50000</b>	22539	19645
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

**CONTAMINATION**

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.0	<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

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>30</b>	26	38
Chromium	ppm	ASTM D5185m >20	<b>3</b>	2	1
Nickel	ppm	ASTM D5185m >4	<b>4</b>	6	3
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m >20	<b>22</b>	20	20
Lead	ppm	ASTM D5185m >40	<b>8</b>	5	4
Copper	ppm	ASTM D5185m >330	<b>8</b>	10	25
Tin	ppm	ASTM D5185m >15	<b>3</b>	2	3
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>4</b>	5	75
Barium	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>61</b>	71	61
Manganese	ppm	ASTM D5185m 0	<b>1</b>	<1	5
Magnesium	ppm	ASTM D5185m 950	<b>983</b>	1014	452
Calcium	ppm	ASTM D5185m 1050	<b>1197</b>	1353	1726
Phosphorus	ppm	ASTM D5185m 995	<b>1081</b>	1136	972
Zinc	ppm	ASTM D5185m 1180	<b>1318</b>	1459	1264
Sulfur	ppm	ASTM D5185m 2600	<b>2986</b>	3699	3400

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>11</b>	12	▲ 39
Sodium	ppm	ASTM D5185m	<b>2</b>	<1	5
Potassium	ppm	ASTM D5185m >20	<b>47</b>	47	67

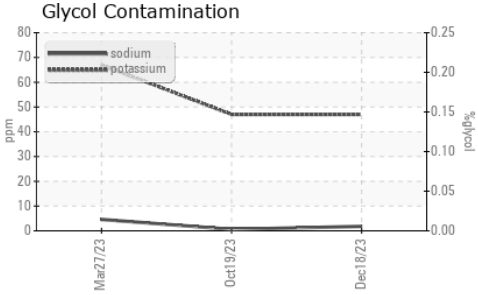
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.1</b>	8.2	8.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.3</b>	20.6	21.4

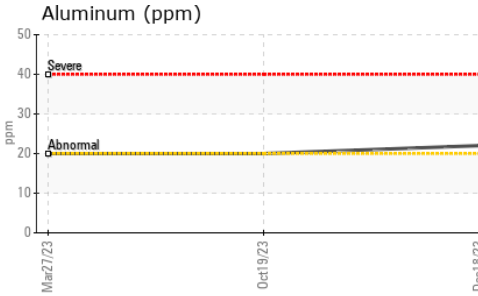
**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.2</b>	17.7	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.4</b>	7.2	7.6

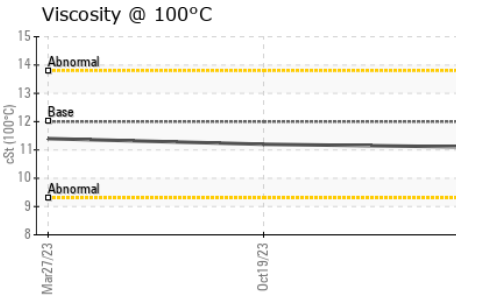
# OIL ANALYSIS REPORT



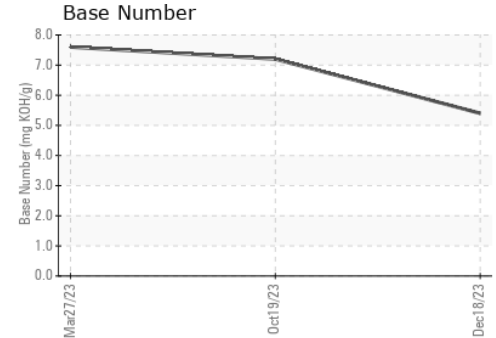
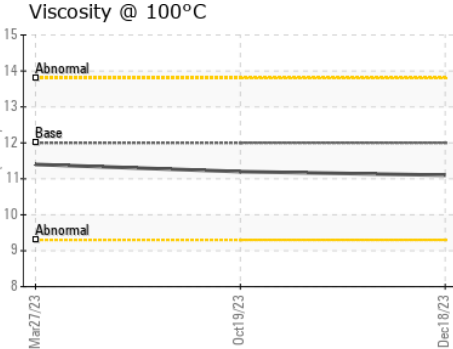
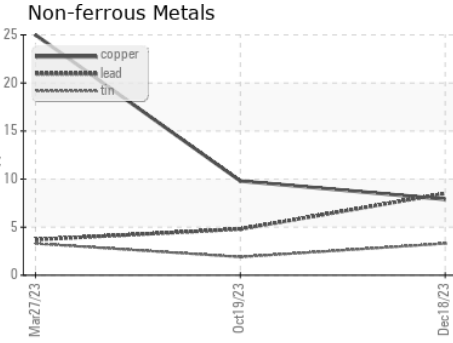
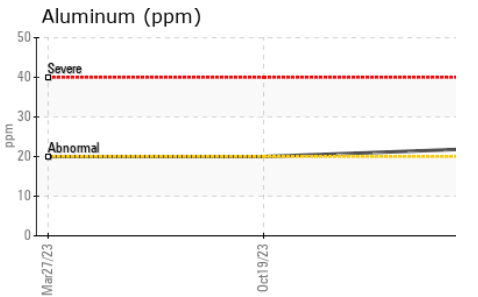
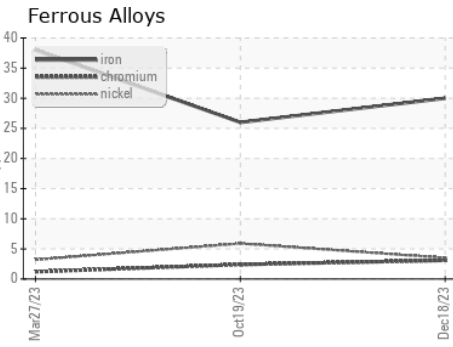
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	11.2



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105404 **Received** : 29 Dec 2023  
**Lab Number** : **06047544** **Diagnosed** : 02 Jan 2024  
**Unique Number** : 10808152 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**Transervice - Shop 1366 - Berkeley-Woodland**  
 2370 East Main Street  
 Woodland, CA  
 US 95776  
 Contact: Gary Mann  
 gmanna@transervice.com  
 T: (530)666-7771  
 F: (530)406-7971

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)