



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

Area  
**(65648Z) Walgreens - Tractor**  
Machine Id  
**[Walgreens - Tractor] 136A624125**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

**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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0103654</b>	---	---
Sample Date		Client Info		<b>21 Feb 2024</b>	---	---
Machine Age	mls	Client Info		<b>28041</b>	---	---
Oil Age	mls	Client Info		<b>28041</b>	---	---
Filter Age	mls	Client Info		<b>28041</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>52</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>17</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>6</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>19</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>5</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.

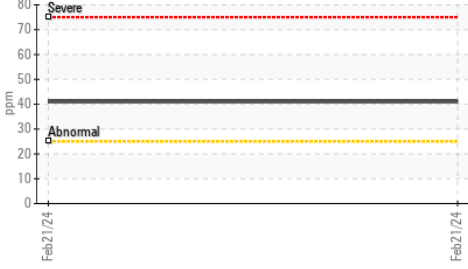
Silicon	ppm	ASTM D5185m	>25	<b>▲ 41</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>52</b>	---	---
Fuel		WC Method	>2.0	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.5</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

**FLUID CONDITION**

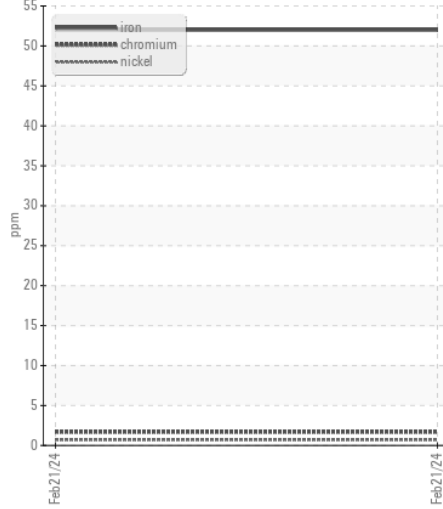
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>5</b>	---	---
Boron	ppm	ASTM D5185m	2	<b>53</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>4</b>	---	---
Molybdenum	ppm	ASTM D5185m	50	<b>66</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>5</b>	---	---
Magnesium	ppm	ASTM D5185m	950	<b>479</b>	---	---
Calcium	ppm	ASTM D5185m	1050	<b>1708</b>	---	---
Phosphorus	ppm	ASTM D5185m	995	<b>1040</b>	---	---
Zinc	ppm	ASTM D5185m	1180	<b>1253</b>	---	---
Sulfur	ppm	ASTM D5185m	2600	<b>3349</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.5</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.5</b>	---	---
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.5</b>	---	---

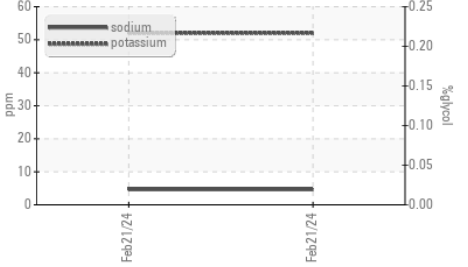
▲ Silicon (ppm)



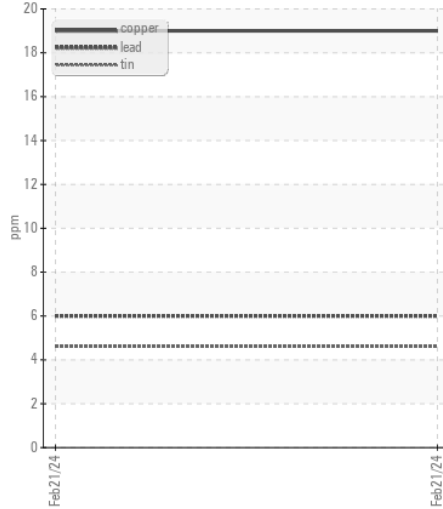
Ferrous Alloys



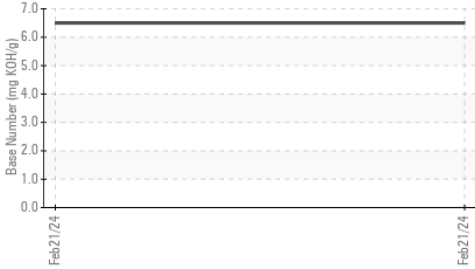
Glycol Contamination



Non-ferrous Metals



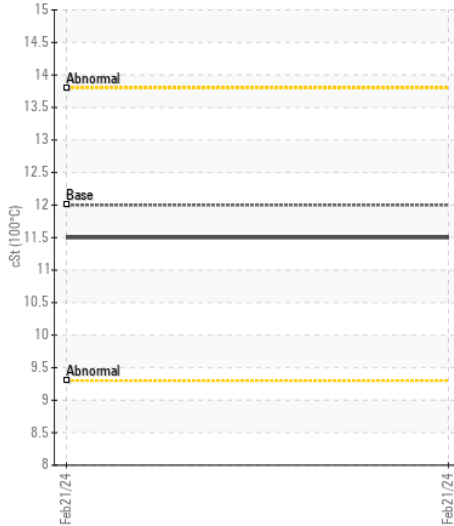
Base Number



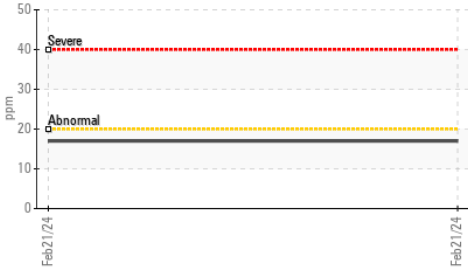
Viscosity @ 100°C



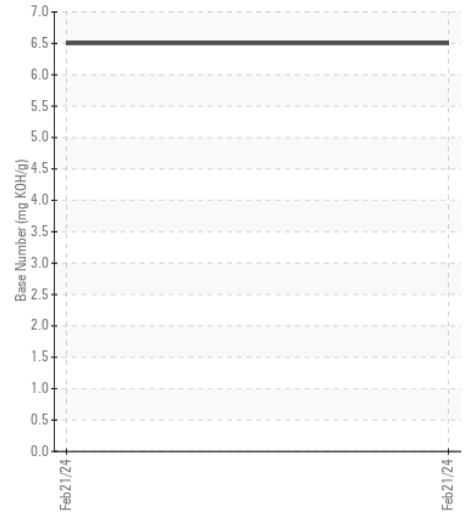
Viscosity @ 100°C



Aluminum (ppm)



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : PCA0103654  
 Lab Number : 06121387  
 Unique Number : 10930220  
 Test Package : FLEET

Received : 18 Mar 2024  
 Tested : 19 Mar 2024  
 Diagnosed : 20 Mar 2024 - Don Baldrige

Transervice - Shop 1365 - Berkeley-Nazareth  
 6813 Chrisphalt Drive  
 Bath Borough, PA  
 US 18014  
 Contact: Stephen Mackes  
 smackes@transervice.com  
 T: (610)837-8103  
 F: (610)837-8105

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)