

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(P981058) Somerset Service-Tractor**  
 Machine Id  
**[Somerset Service-Tractor] 248A8947**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 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>PCA0116514</b>	---	---
Sample Date	Client Info		<b>10 Mar 2024</b>	---	---
Machine Age	mls	Client Info	<b>514919</b>	---	---
Oil Age	mls	Client Info	<b>30819</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.0	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>33</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>6</b>	---	---
Lead	ppm	ASTM D5185m >40	<b>6</b>	---	---
Copper	ppm	ASTM D5185m >330	<b>2</b>	---	---
Tin	ppm	ASTM D5185m >15	<b>3</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>5</b>	---	---
Barium	ppm	ASTM D5185m 0	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185m 50	<b>67</b>	---	---
Manganese	ppm	ASTM D5185m 0	<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m 950	<b>987</b>	---	---
Calcium	ppm	ASTM D5185m 1050	<b>1170</b>	---	---
Phosphorus	ppm	ASTM D5185m 995	<b>1283</b>	---	---
Zinc	ppm	ASTM D5185m 1180	<b>1301</b>	---	---
Sulfur	ppm	ASTM D5185m 2600	<b>3363</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>11</b>	---	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>7</b>	---	---

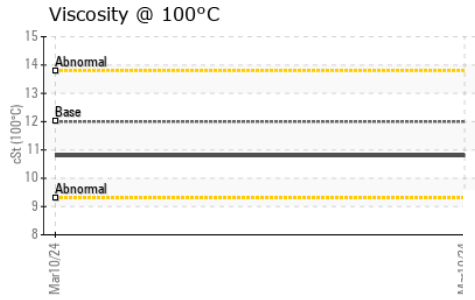
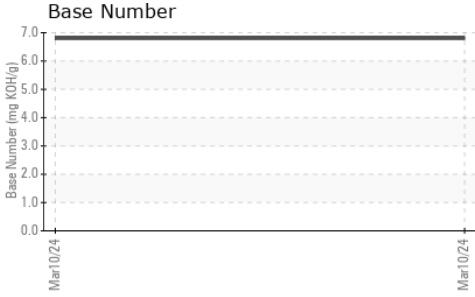
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.4</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.7</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>19.6</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.8</b>	---	---

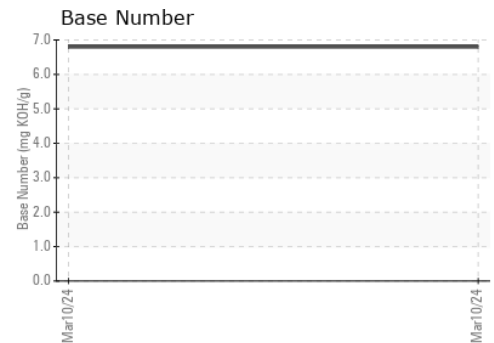
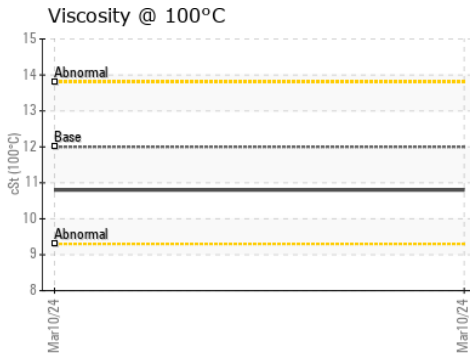
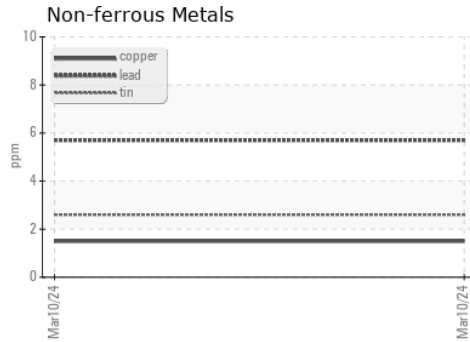
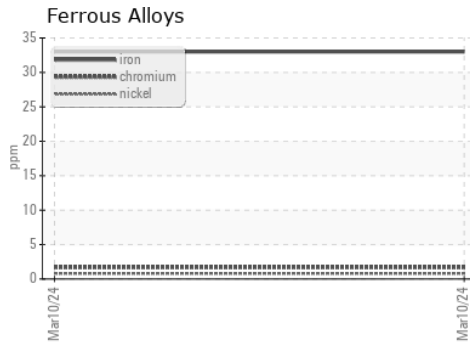
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VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
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>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>10.8</b>	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116514  
**Lab Number** : **06126877**  
**Unique Number** : 10941028  
**Test Package** : FLEET

**Received** : 22 Mar 2024  
**Tested** : 26 Mar 2024  
**Diagnosed** : 26 Mar 2024 - Wes Davis

**Transervice - Shop 2480 - Somerset Service**  
 606 E. Bourne Avenue  
 Somerset, KY  
 US 42501  
 Contact: Bart Beshears  
 Shop2480@transervice.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)

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F: