

Machine Id  
**PETERBILT 9**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0081006</b>	PCA0053905	---
Sample Date		Client Info		<b>25 Mar 2024</b>	05 May 2023	---
Machine Age	mls	Client Info		<b>543000</b>	530000	---
Oil Age	mls	Client Info		<b>10000</b>	9800	---
Filter Age	mls	Client Info		<b>10000</b>	9800	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>18</b>	15	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	---
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

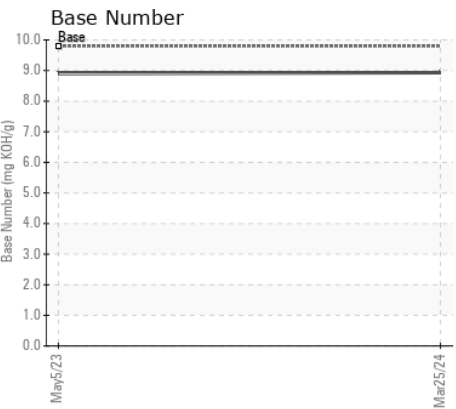
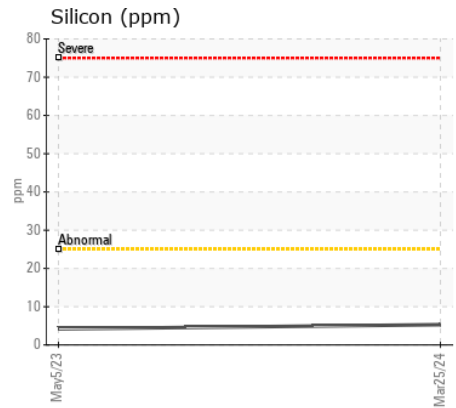
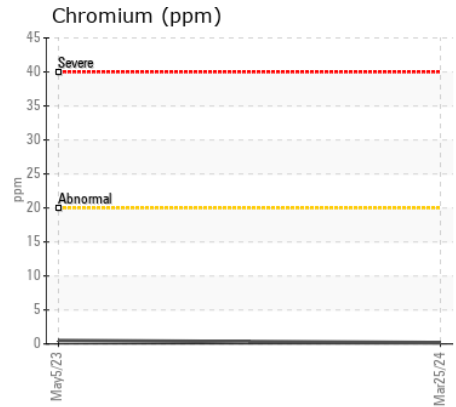
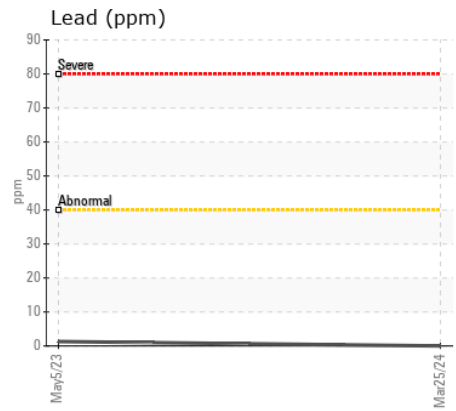
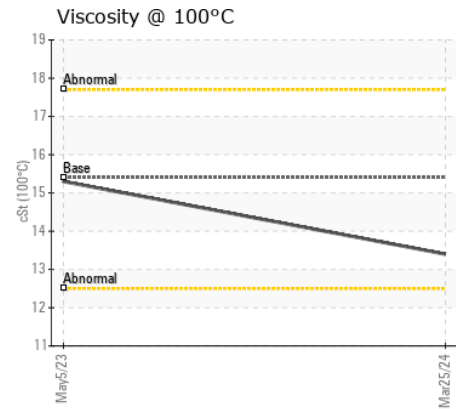
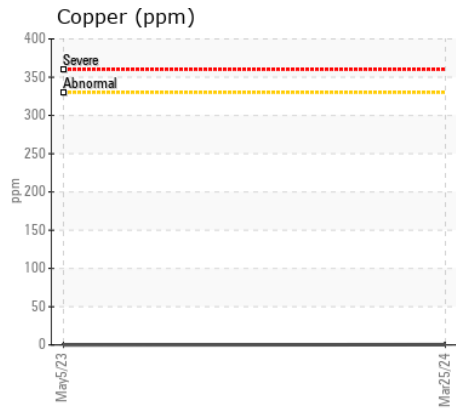
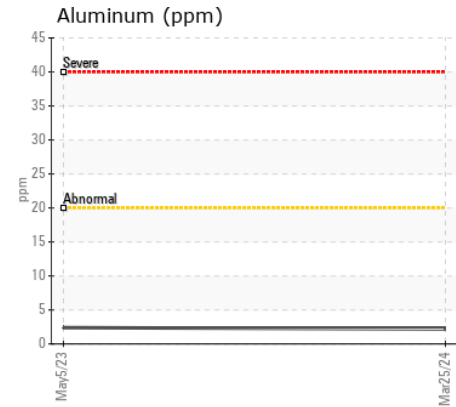
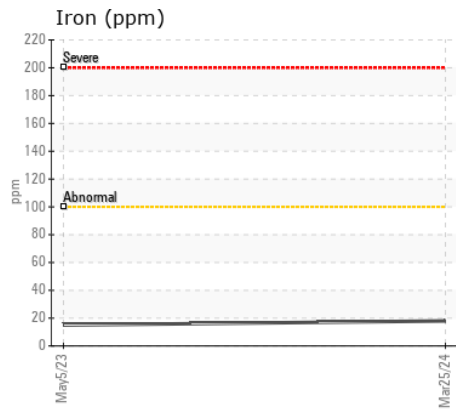
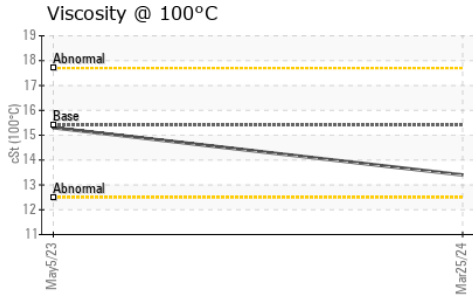
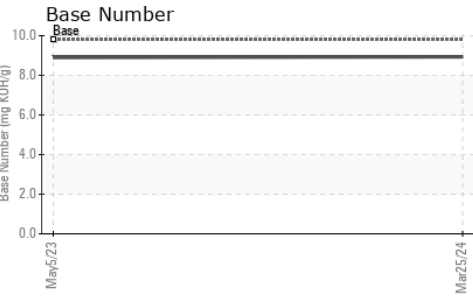
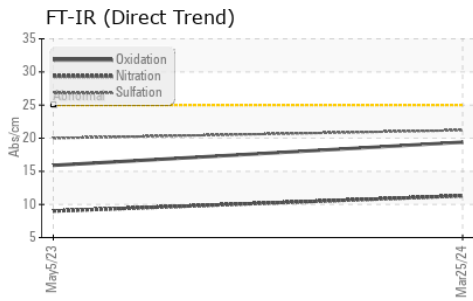
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.3</b>	9.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	20.0	---
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	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

**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.

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	---
Boron	ppm	ASTM D5185m	0	<b>68</b>	3	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	60	<b>96</b>	55	---
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	1010	<b>654</b>	937	---
Calcium	ppm	ASTM D5185m	1070	<b>1386</b>	1009	---
Phosphorus	ppm	ASTM D5185m	1150	<b>779</b>	995	---
Zinc	ppm	ASTM D5185m	1270	<b>875</b>	1241	---
Sulfur	ppm	ASTM D5185m	2060	<b>3373</b>	3617	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.4</b>	15.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.93</b>	8.90	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.4</b>	15.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0081006  
**Lab Number** : 06149588  
**Unique Number** : 10979666  
**Test Package** : MOB 2

**Received** : 15 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Sean Felton

**VALLEY PACIFIC PETROLEUM SERVICES**  
 152 FRANK WEST CIRCLE  
 STOCKTON, CA  
 US 95206

Contact: MARCEY LIGHTFOOT  
 marcey.lightfoot@vpps.net

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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