



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[WO36109]

Machine Id

PETERBILT TRK 186

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0903654	WC0903633	---
Sample Date		Client Info		07 Jun 2024	15 Feb 2024	---
Machine Age	mls	Client Info		275214	257133	---
Oil Age	mls	Client Info		18082	0	---
Filter Age	mls	Client Info		18082	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	33	42	---
Chromium	ppm	ASTM D5185m	>4	1	3	---
Nickel	ppm	ASTM D5185m	>2	0	1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>25	2	2	---
Lead	ppm	ASTM D5185m	>45	0	<1	---
Copper	ppm	ASTM D5185m	>85	1	2	---
Tin	ppm	ASTM D5185m	>4	0	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

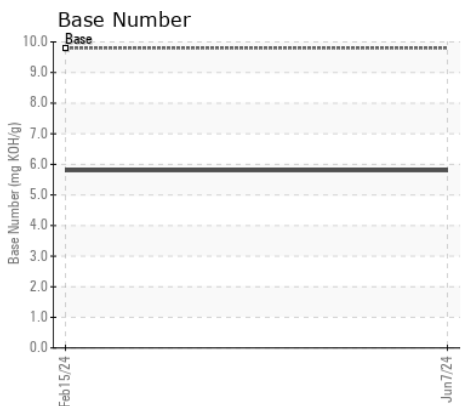
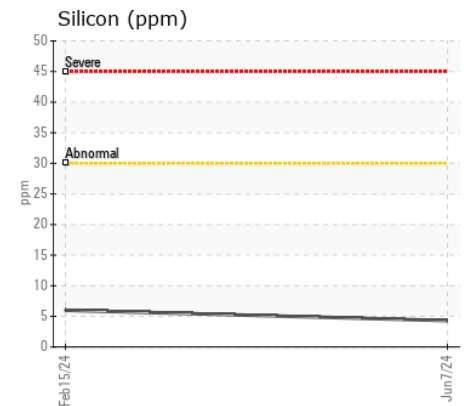
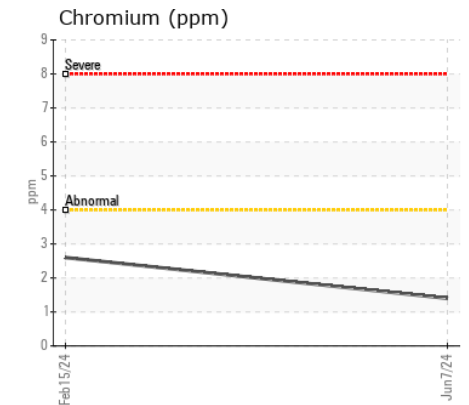
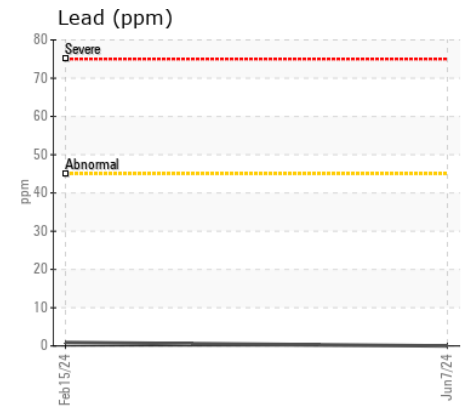
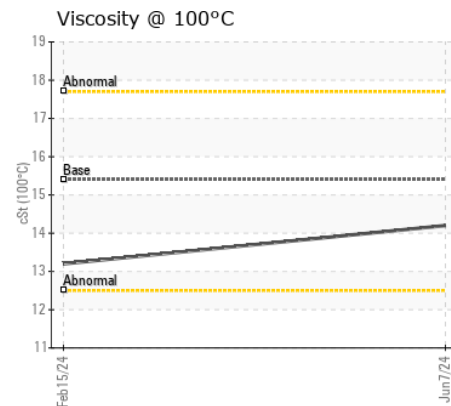
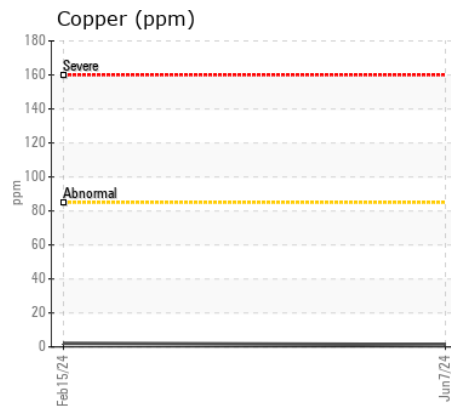
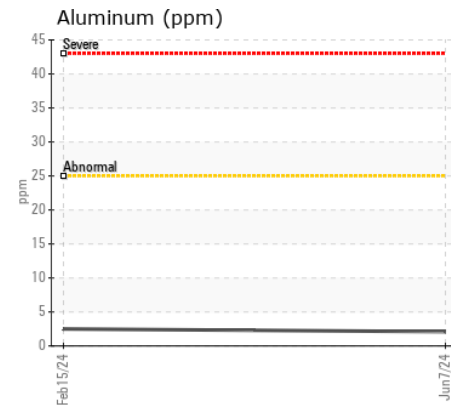
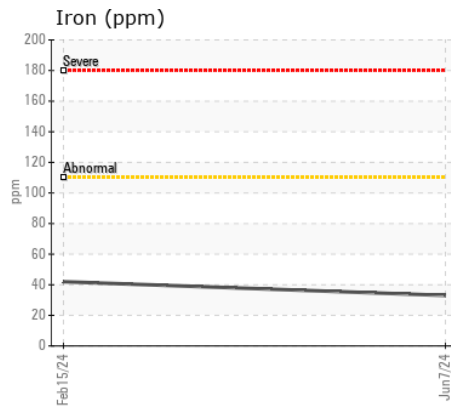
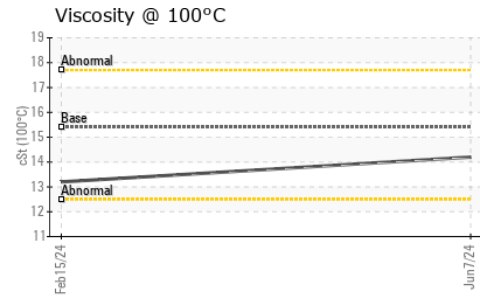
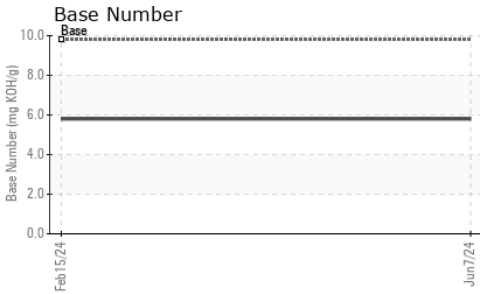
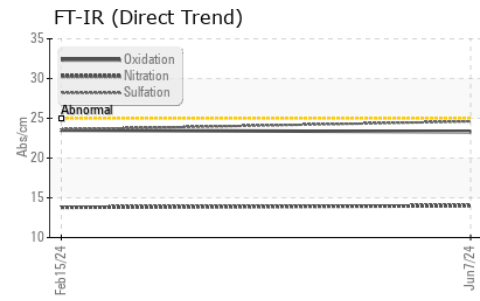
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	4	6	---
Potassium	ppm	ASTM D5185m	>20	<1	3	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.8	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	14.0	13.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	23.6	---
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	---

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		6	6	---
Boron	ppm	ASTM D5185m	0	1	5	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	68	55	---
Manganese	ppm	ASTM D5185m	0	<1	1	---
Magnesium	ppm	ASTM D5185m	1010	978	820	---
Calcium	ppm	ASTM D5185m	1070	1243	982	---
Phosphorus	ppm	ASTM D5185m	1150	1010	890	---
Zinc	ppm	ASTM D5185m	1270	1241	1083	---
Sulfur	ppm	ASTM D5185m	2060	3331	2938	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.3	23.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.8	5.8	---
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0903654 **Received** : 11 Jul 2024
Lab Number : 06233127 **Tested** : 12 Jul 2024
Unique Number : 11116620 **Diagnosed** : 12 Jul 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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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