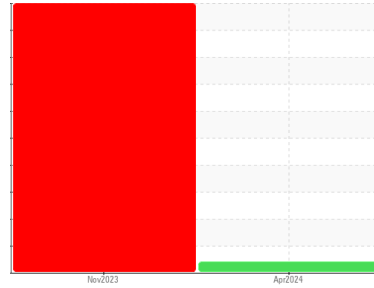


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

15
Component
Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

● Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Resample)

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

● Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0118253	PCA0063629	---
Sample Date	Client Info		05 Apr 2024	03 Nov 2023	---
Machine Age	mls	Client Info	342121	243328	---
Oil Age	mls	Client Info	11894	0	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			ATTENTION	SEVERE	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	13	▲ 122	---
Chromium	ppm	ASTM D5185m >20	<1	8	---
Nickel	ppm	ASTM D5185m >4	0	3	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m >3	0	<1	---
Aluminum	ppm	ASTM D5185m >20	2	9	---
Lead	ppm	ASTM D5185m >40	0	6	---
Copper	ppm	ASTM D5185m >330	<1	10	---
Tin	ppm	ASTM D5185m >15	0	2	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	16	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	57	106	---
Manganese	ppm	ASTM D5185m	<1	2	---
Magnesium	ppm	ASTM D5185m	894	499	---
Calcium	ppm	ASTM D5185m	1124	1585	---
Phosphorus	ppm	ASTM D5185m	933	729	---
Zinc	ppm	ASTM D5185m	1113	974	---
Sulfur	ppm	ASTM D5185m	3149	2490	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	4	18	---
Sodium	ppm	ASTM D5185m	7	▲ 250	---
Potassium	ppm	ASTM D5185m >20	19	▲ 786	---
Fuel	%	ASTM D3524 >5	0.5	1.4	---
Glycol	%	*ASTM D2982	0.0	▲ 0.12	---

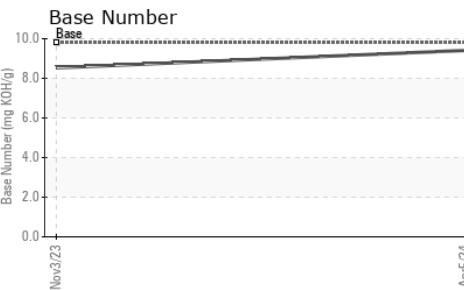
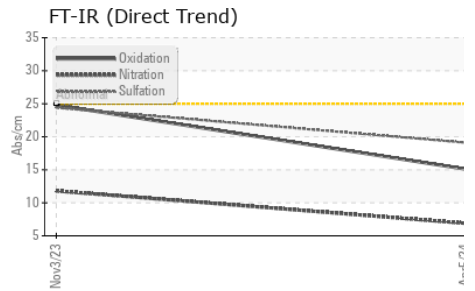
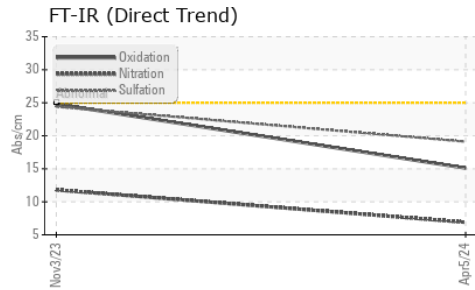
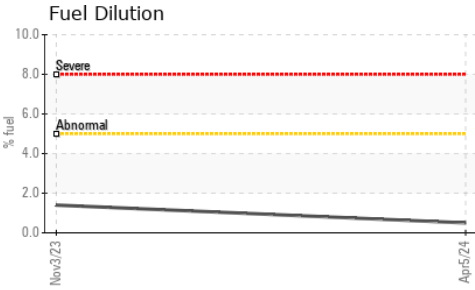
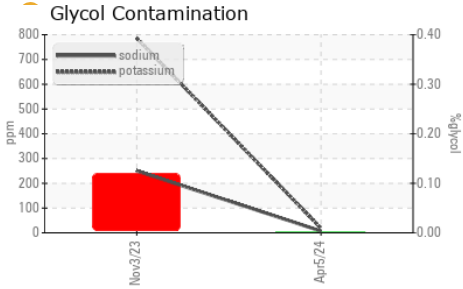
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.2	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	6.9	11.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.1	24.4	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.1	24.8	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	9.41	8.53	---

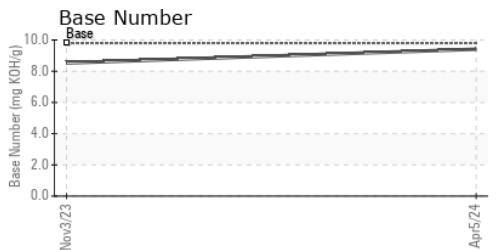
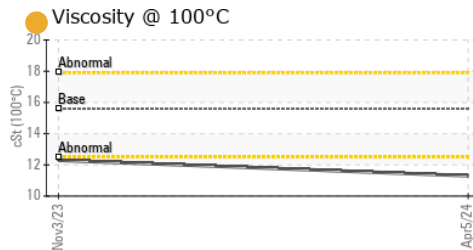
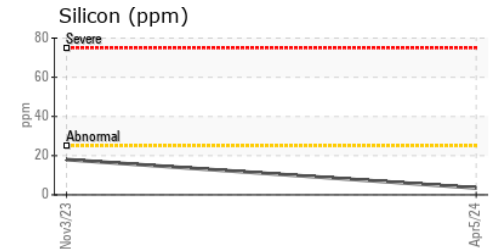
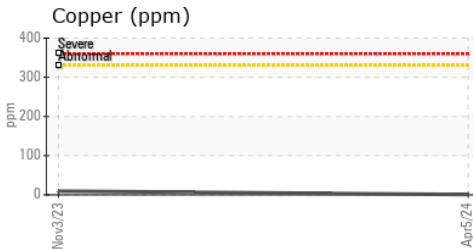
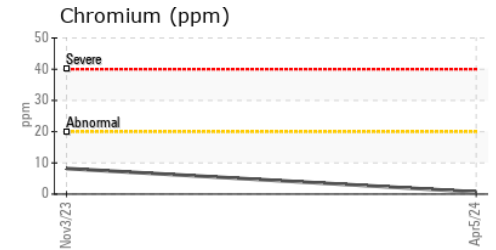
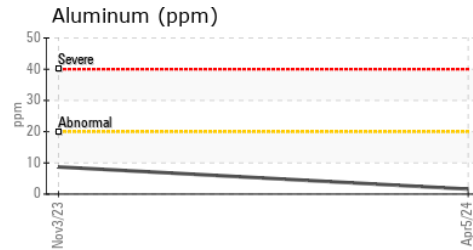
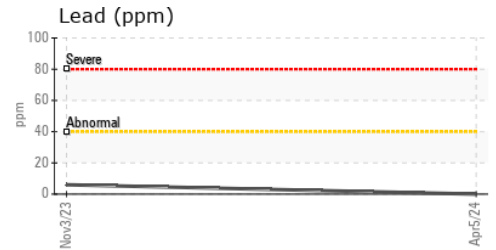
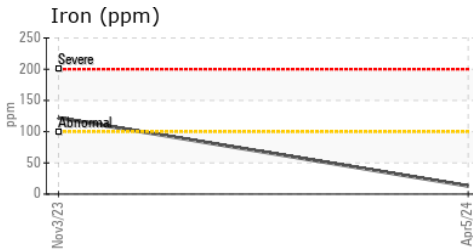
OIL ANALYSIS REPORT



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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6 ● 11.3	12.3	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0118253 **Received** : 15 Apr 2024
Lab Number : 06148900 **Tested** : 18 Apr 2024
Unique Number : 10978978 **Diagnosed** : 18 Apr 2024 - Doug Bogart
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

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)

HARDLINE TRUCKING
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 COTTONWOOD, CA
 US 96022
 Contact: Service Manager

T:
F: