



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
15
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	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	---
Filter Age	mls	Client Info		11894	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				ATTENTION	SEVERE	---

WEAR

All component wear rates are normal.

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	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

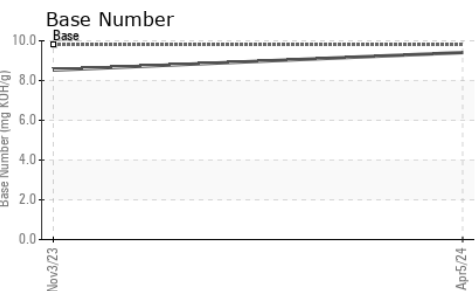
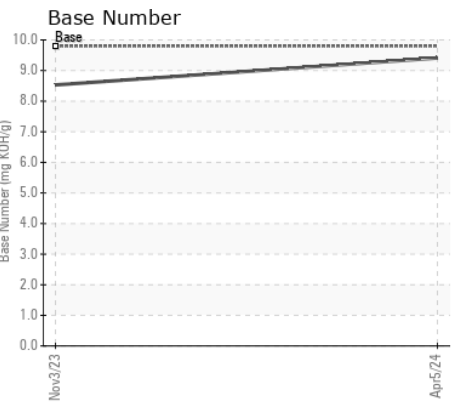
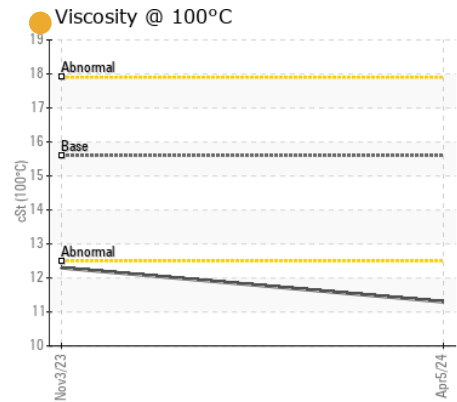
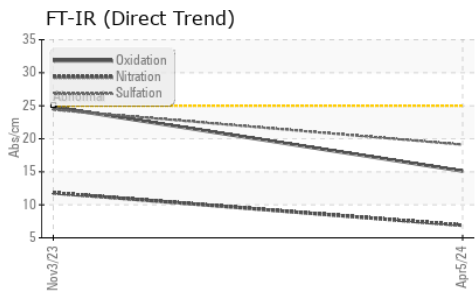
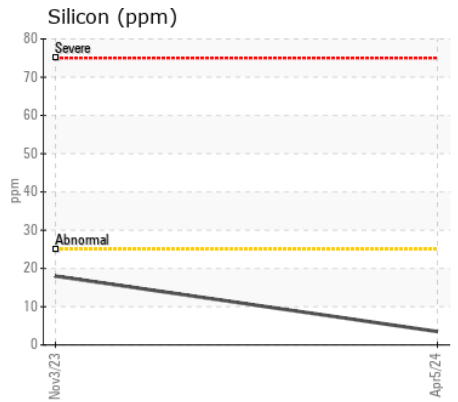
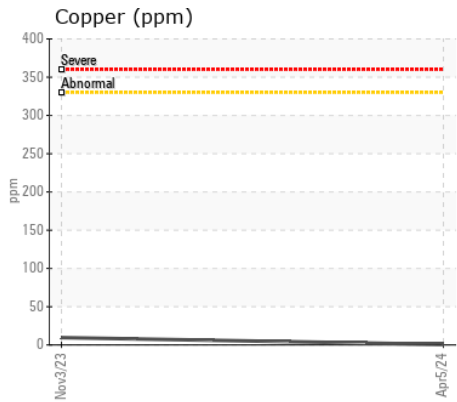
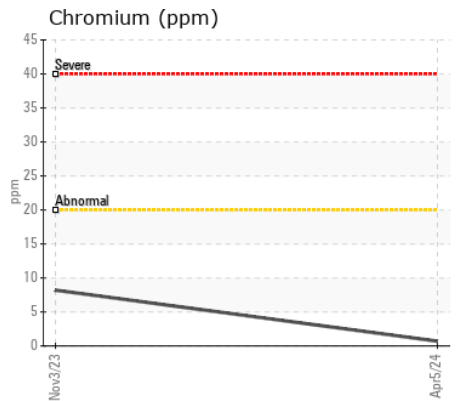
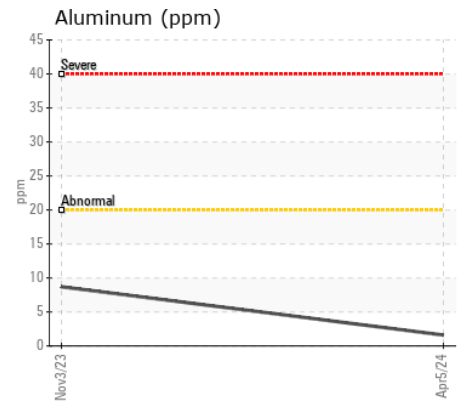
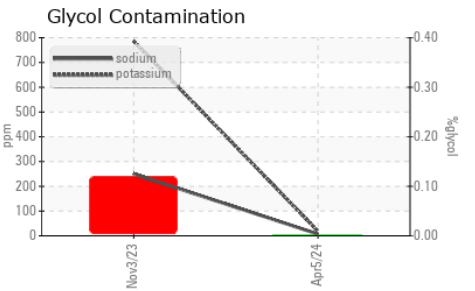
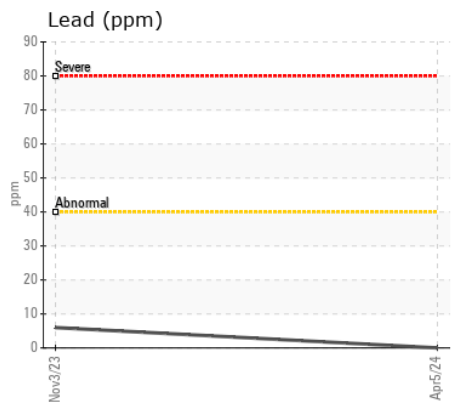
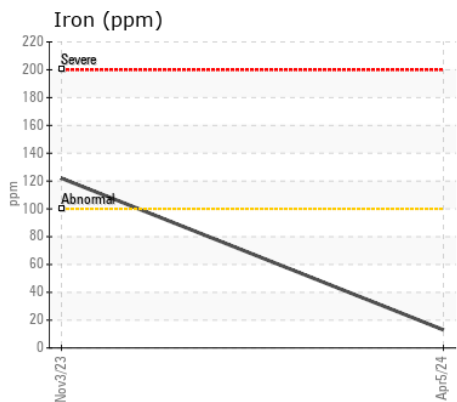
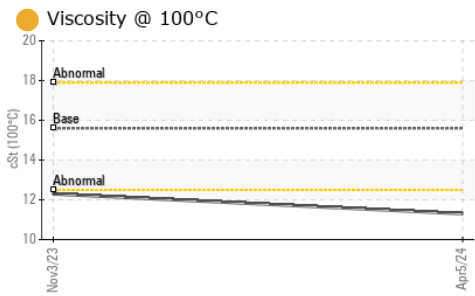
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	18	---
Potassium	ppm	ASTM D5185m	>20	19	▲ 786	---
Fuel	%	ASTM D3524	>5	0.5	1.4	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	*ASTM D2982		0.0	▲ 0.12	---
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	---
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	▲ 0.2%	---

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.

Sodium	ppm	ASTM D5185m		7	▲ 250	---
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	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	24.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.41	8.53	---
Visc @ 100°C	cSt	ASTM D445	15.6	● 11.3	12.3	---



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)

HARDLINE TRUCKING
 3161 MAIN ST
 COTTONWOOD, CA
 US 96022
 Contact: Service Manager

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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