



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
MACK 54
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0071003	PCAMF013968	---
Sample Date		Client Info		01 Feb 2024	22 Sep 2019	---
Machine Age	mls	Client Info		298544	148190	---
Oil Age	mls	Client Info		23000	14000	---
Filter Age	mls	Client Info		500	14000	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	3	15	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>20	1	4	---
Lead	ppm	ASTM D5185m	>40	0	1	---
Copper	ppm	ASTM D5185m	>330	2	2	---
Tin	ppm	ASTM D5185m	>15	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	LIGHT	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

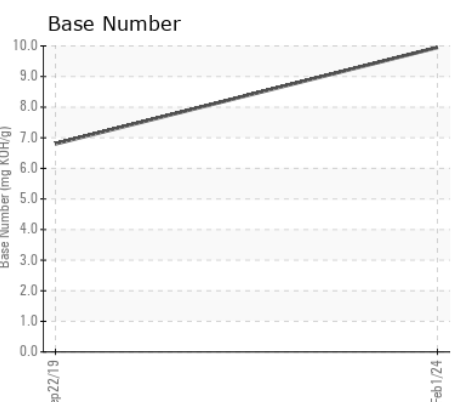
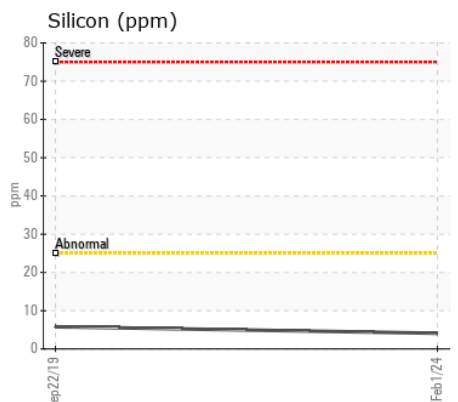
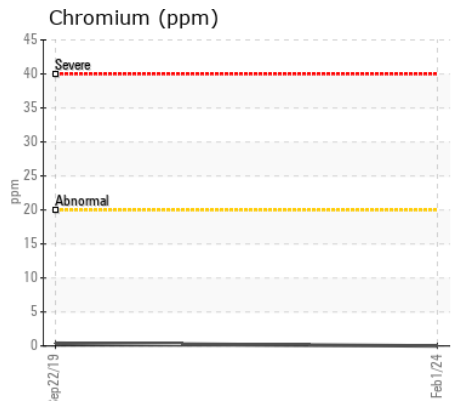
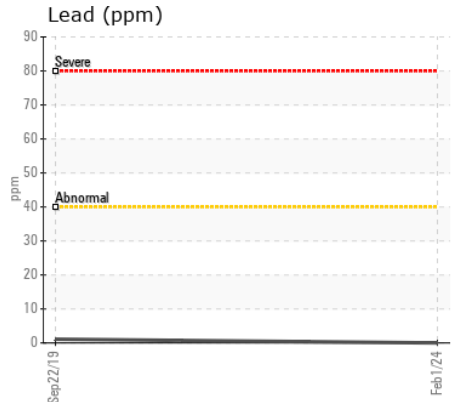
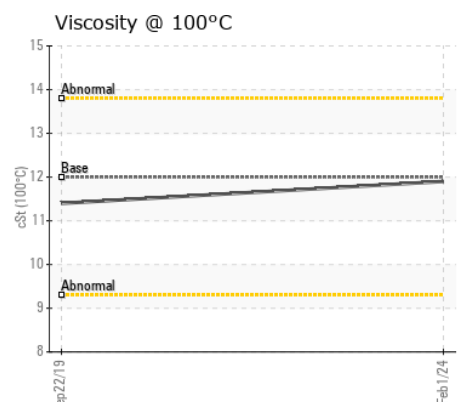
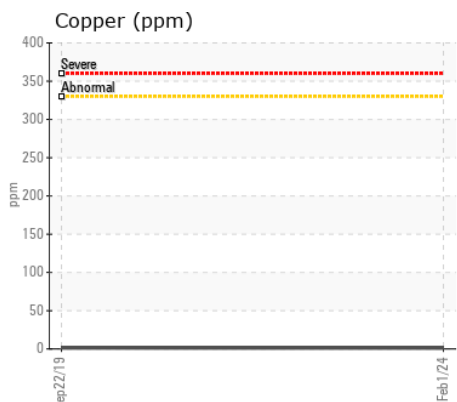
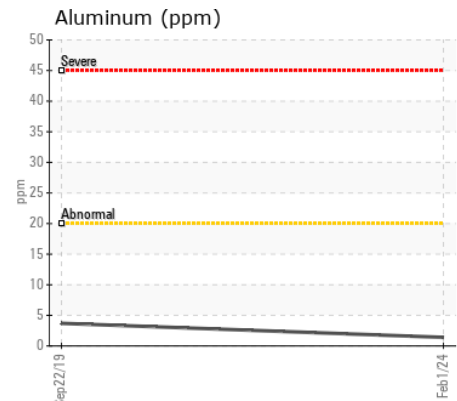
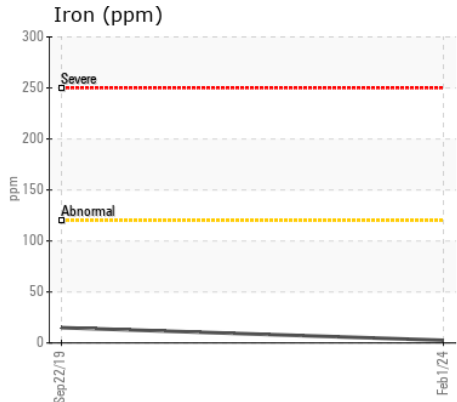
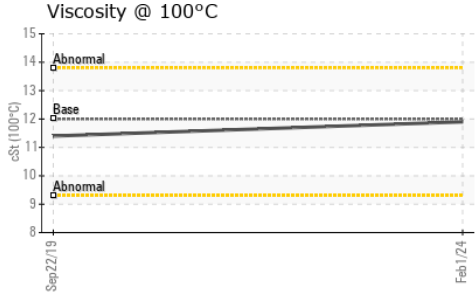
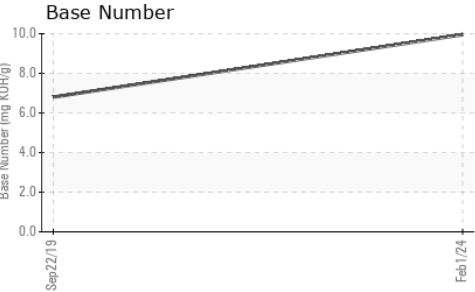
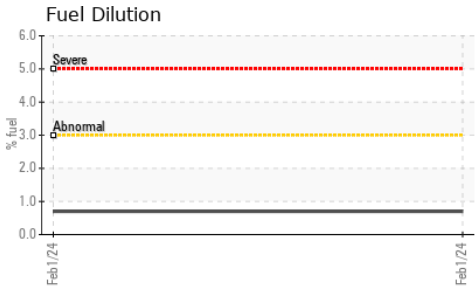
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	6	---
Potassium	ppm	ASTM D5185m	>20	0	8	---
Fuel	%	ASTM D3524	>3.0	0.7	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>4	0.1	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	5.9	9.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	21.4	---
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	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		1	12	---
Boron	ppm	ASTM D5185m	2	11	1	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	50	59	63	---
Manganese	ppm	ASTM D5185m	0	0	<1	---
Magnesium	ppm	ASTM D5185m	950	994	1132	---
Calcium	ppm	ASTM D5185m	1050	1004	1201	---
Phosphorus	ppm	ASTM D5185m	995	1050	976	---
Zinc	ppm	ASTM D5185m	1180	1260	1257	---
Sulfur	ppm	ASTM D5185m	2600	3212	2580	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	17.2	---
Base Number (BN)	mg KOH/g	ASTM D2896		9.95	6.8	---
Visc @ 100°C	cSt	ASTM D445	12.00	11.9	11.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0071003 **Received** : 07 Feb 2024
Lab Number : 06083156 **Tested** : 13 Feb 2024
Unique Number : 10870601 **Diagnosed** : 13 Feb 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: FUELDILUTION, PercentFuel)

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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)