

OIL ANALYSIS REPORT



Area
Inactive Off Road
Machine Id
E59
Component
Right Planetary
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

Sample Rating Trend



VISCOSITY



DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0098483	---	---
Sample Date	Client Info		15 Aug 2023	---	---
Machine Age	hrs	Client Info	15148	---	---
Oil Age	hrs	Client Info	15148	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ATTENTION	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	578	---	---
Chromium	ppm	ASTM D5185m >10	10	---	---
Nickel	ppm	ASTM D5185m >10	3	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m	<1	---	---
Aluminum	ppm	ASTM D5185m >25	4	---	---
Lead	ppm	ASTM D5185m >25	0	---	---
Copper	ppm	ASTM D5185m >75	3	---	---
Tin	ppm	ASTM D5185m >10	<1	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	<1	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	16	---	---
Barium	ppm	ASTM D5185m 0	▲ 37	---	---
Molybdenum	ppm	ASTM D5185m 0	▲ 17	---	---
Manganese	ppm	ASTM D5185m 0	8	---	---
Magnesium	ppm	ASTM D5185m 9	17	---	---
Calcium	ppm	ASTM D5185m 3114	4107	---	---
Phosphorus	ppm	ASTM D5185m 1099	▲ 634	---	---
Zinc	ppm	ASTM D5185m 1245	▲ 748	---	---
Sulfur	ppm	ASTM D5185m 7086	▲ 2917	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	18	---	---
Sodium	ppm	ASTM D5185m	14	---	---
Potassium	ppm	ASTM D5185m >20	16	---	---

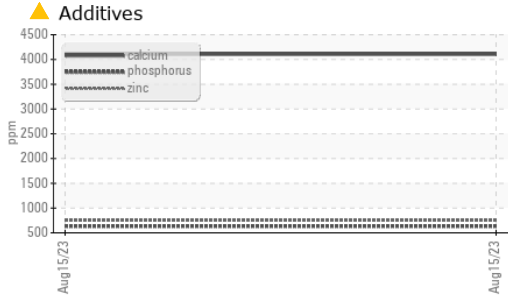
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 3.27	0.88	---	---

VISUAL

	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	MODER	---	---
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	---	---
Free Water	scalar	*Visual	NEG	---	---

OIL ANALYSIS REPORT

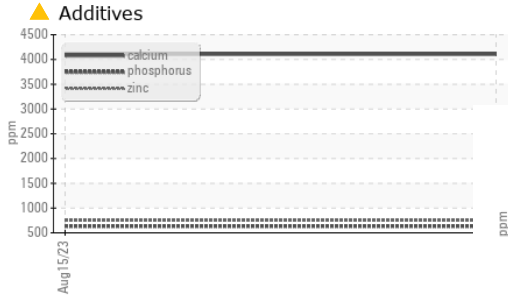


FLUID PROPERTIES

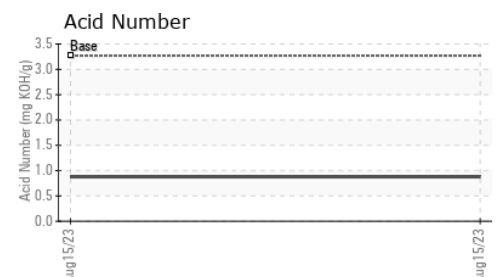
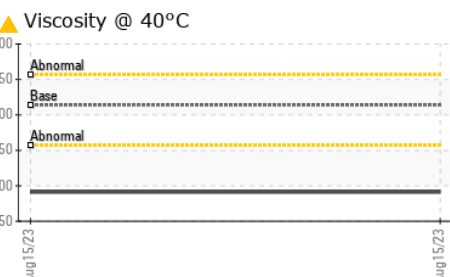
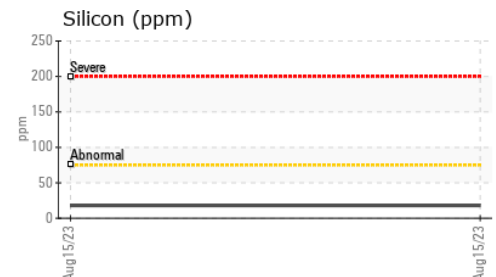
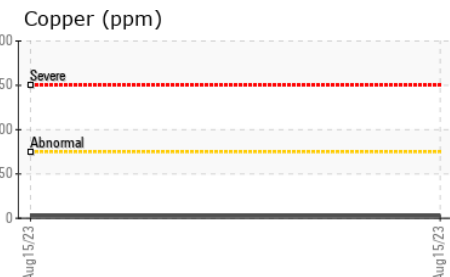
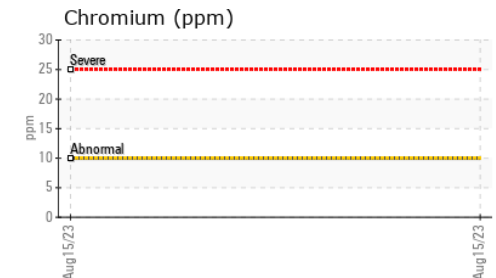
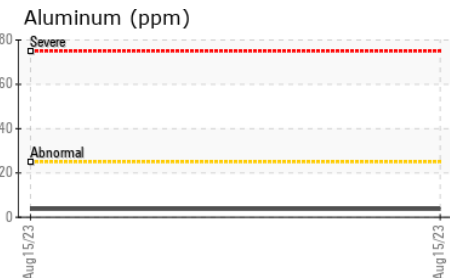
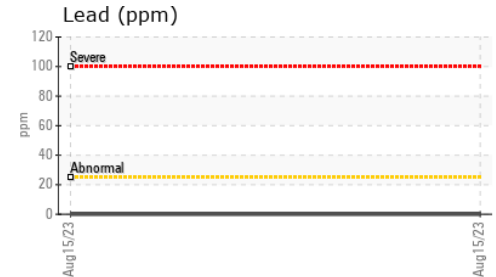
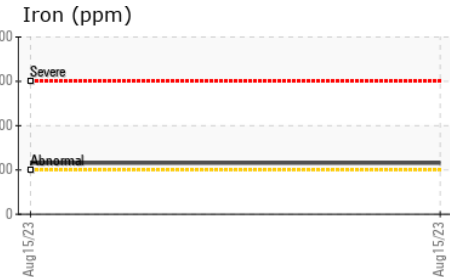
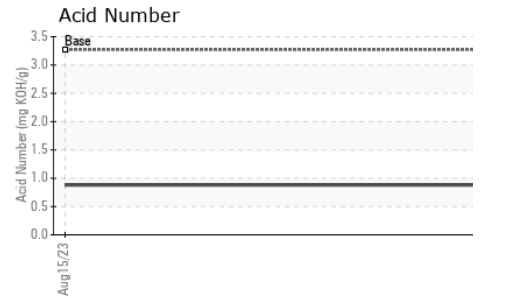
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	213.9 ▲ 91.2	---	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098483 **Received** : 17 Aug 2023
Lab Number : 05927412 **Diagnosed** : 18 Aug 2023
Unique Number : 10607359 **Diagnostician** : Don Baldrige
Test Package : MOB 2

G LOPES CONSTRUCTION
 565 WINTHROP ST
 TAUNTON, MA
 US 02780
 Contact: BUTCH MCGRATH
 bmcgrath@glopes.com

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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F: