

OIL ANALYSIS REPORT

Sample Rating Trend



Area
[70412]
 Machine Id
CRN032
 Component
Rear Right Final Drive
 Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS

Recommendation
 We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: New purchase PM-4 changed fluid)

Wear
 The copper level is abnormal. All other component wear rates are normal.

Contamination
 Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition
 The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0109353	---	---
Sample Date	Client Info	11 Apr 2024	---	---
Machine Age	hrs Client Info	3980	---	---
Oil Age	hrs Client Info	3980	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	430	---	---
Chromium	ppm ASTM D5185m >10	2	---	---
Nickel	ppm ASTM D5185m >10	2	---	---
Titanium	ppm ASTM D5185m	<1	---	---
Silver	ppm ASTM D5185m	0	---	---
Aluminum	ppm ASTM D5185m >25	11	---	---
Lead	ppm ASTM D5185m >25	5	---	---
Copper	ppm ASTM D5185m >50	158	---	---
Tin	ppm ASTM D5185m >10	2	---	---
Vanadium	ppm ASTM D5185m	0	---	---
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	122	---	---
Barium	ppm ASTM D5185m 0	5	---	---
Molybdenum	ppm ASTM D5185m 0	0	---	---
Manganese	ppm ASTM D5185m 0	6	---	---
Magnesium	ppm ASTM D5185m 9	5	---	---
Calcium	ppm ASTM D5185m 3114	31	---	---
Phosphorus	ppm ASTM D5185m 1099	954	---	---
Zinc	ppm ASTM D5185m 1245	74	---	---
Sulfur	ppm ASTM D5185m 7086	24695	---	---

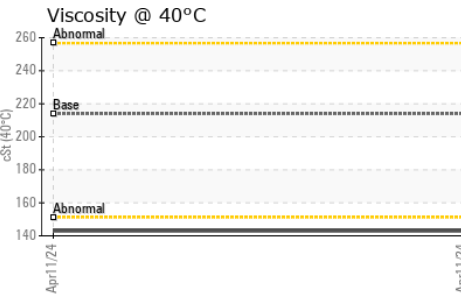
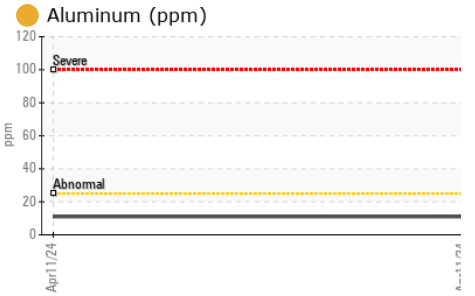
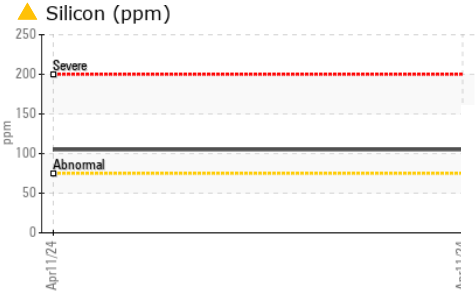
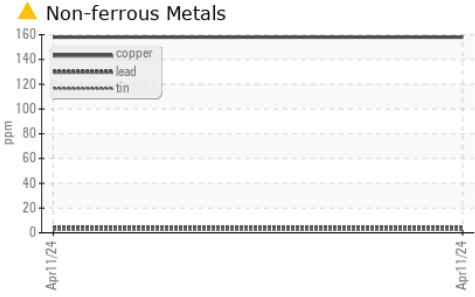
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	105	---	---
Sodium	ppm ASTM D5185m	3	---	---
Potassium	ppm ASTM D5185m >20	3	---	---

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	LIGHT	---	---
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	---	---

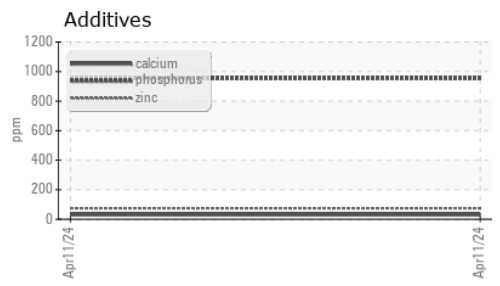
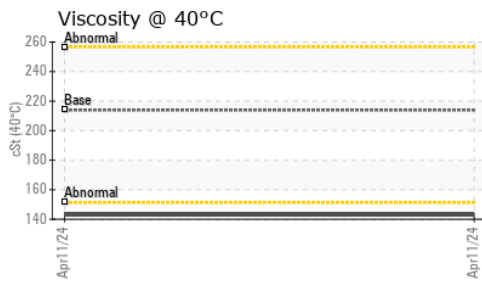
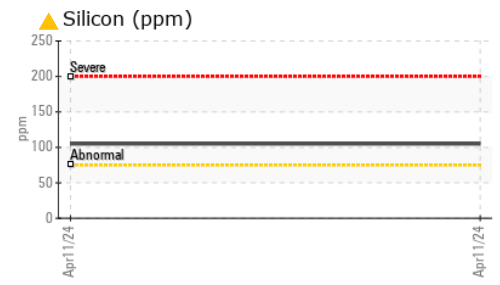
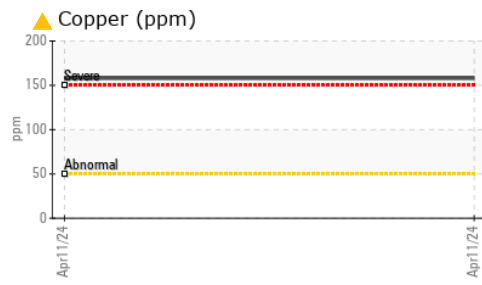
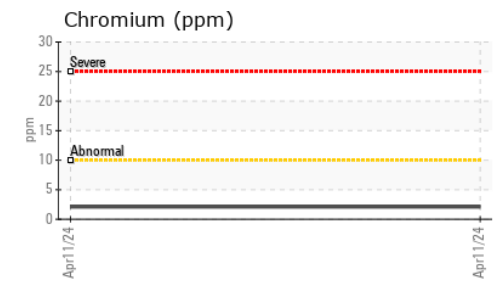
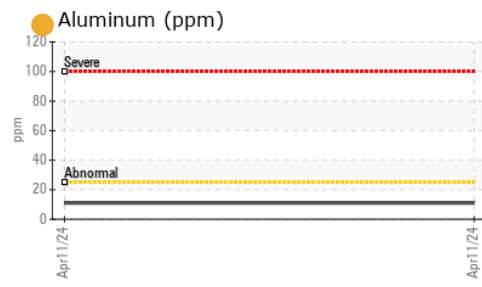
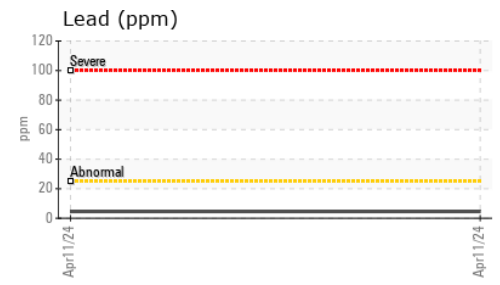
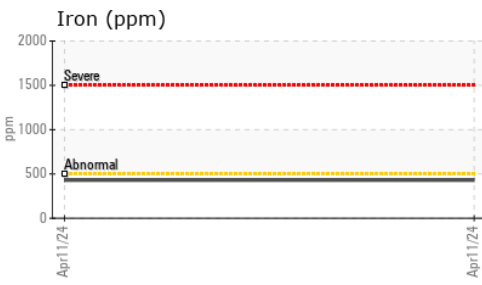
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	143	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109353
Lab Number : **06156356**
Unique Number : 10991779
Test Package : MOB 1

Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Sean Felton

Kemp Quarries - Pryor Stone - Pryor
 1050 E 520 Rd
 Pryor, OK
 US 74361
 Contact:
 pryor@pryorstone.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)