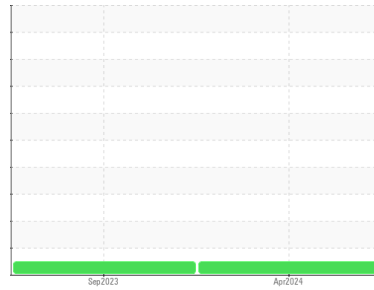


OIL ANALYSIS REPORT



Machine Id
CATERPILLAR 924GZ 313 (S/N CH0924GARTA00271)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (15 GAL)

Sample Rating Trend



NORMAL

✓

DIAGNOSIS

- Recommendation**
 Resample at the next service interval to monitor.
- Wear**
 All component wear rates are normal.
- Contamination**
 There is no indication of any contamination in the oil.
- 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0117715	PCA0100395	---
Sample Date	Client Info	17 Apr 2024	20 Sep 2023	---
Machine Age	hrs Client Info	4713	4605	---
Oil Age	hrs Client Info	108	93	---
Oil Changed	Client Info	Changed	Changed	---
Sample Status		NORMAL	NORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	---
Water	WC Method >0.2	NEG	NEG	---
Glycol	WC Method	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	14	11	---
Chromium	ppm ASTM D5185m >20	<1	<1	---
Nickel	ppm ASTM D5185m >2	0	0	---
Titanium	ppm ASTM D5185m >2	0	<1	---
Silver	ppm ASTM D5185m >2	0	0	---
Aluminum	ppm ASTM D5185m >25	<1	<1	---
Lead	ppm ASTM D5185m >40	0	2	---
Copper	ppm ASTM D5185m >330	3	<1	---
Tin	ppm ASTM D5185m >15	<1	<1	---
Vanadium	ppm ASTM D5185m	0	0	---
Cadmium	ppm ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	19	8	---
Barium	ppm ASTM D5185m	1	0	---
Molybdenum	ppm ASTM D5185m	61	62	---
Manganese	ppm ASTM D5185m	1	<1	---
Magnesium	ppm ASTM D5185m	933	1048	---
Calcium	ppm ASTM D5185m	1059	1147	---
Phosphorus	ppm ASTM D5185m	1052	1085	---
Zinc	ppm ASTM D5185m	1205	1372	---
Sulfur	ppm ASTM D5185m	3593	3511	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	2	2	---
Sodium	ppm ASTM D5185m	4	1	---
Potassium	ppm ASTM D5185m >20	0	1	---

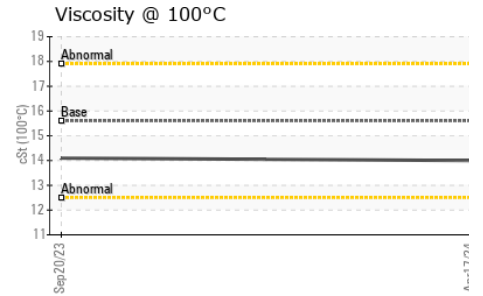
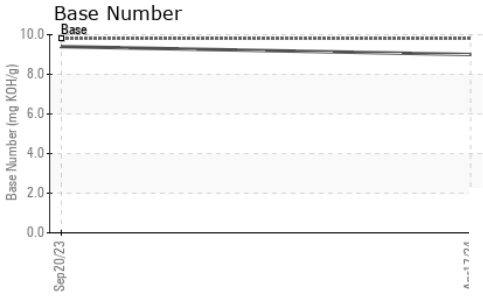
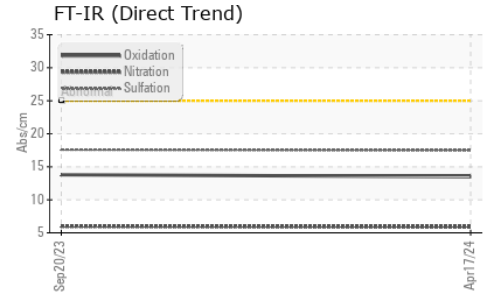
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.1	0.1	---
Nitration	Abs/cm *ASTM D7624 >20	5.9	6.0	---
Sulfation	Abs/.1mm *ASTM D7415 >30	17.5	17.6	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	13.5	13.8	---
Base Number (BN)	mg KOH/g ASTM D2896 9.8	9.0	9.4	---

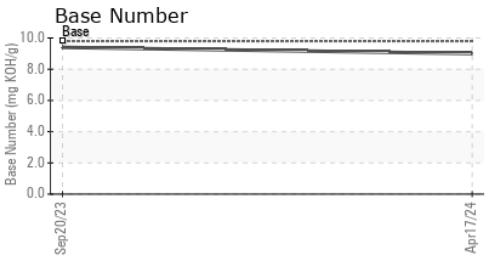
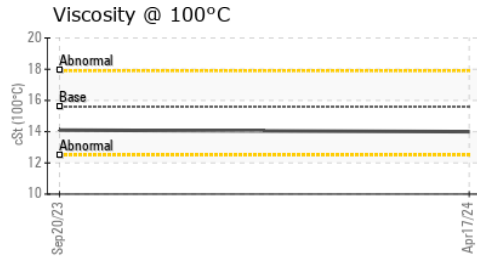
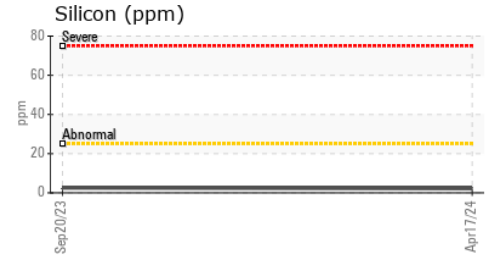
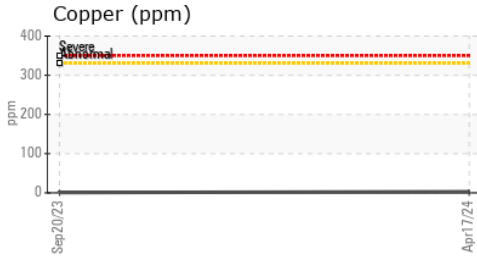
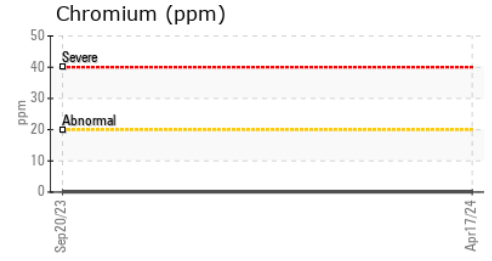
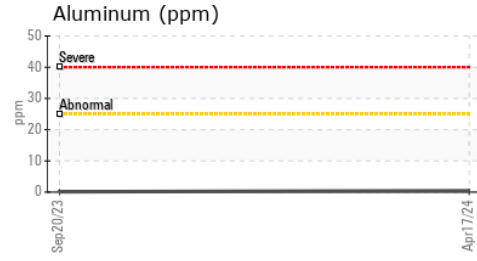
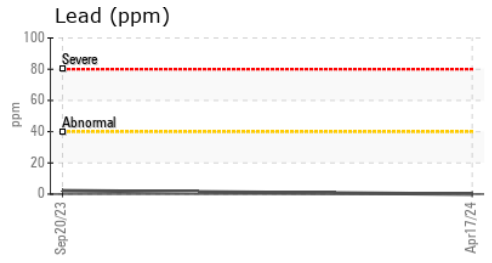
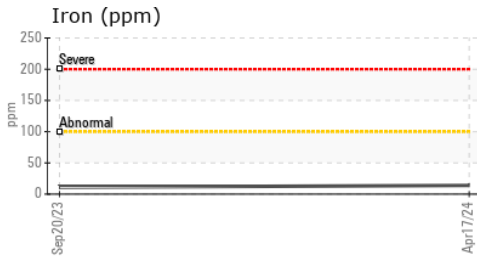
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.6	14.0	14.1	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117715 **Received** : 22 Apr 2024
Lab Number : **06155616** **Tested** : 23 Apr 2024
Unique Number : 10991039 **Diagnosed** : 23 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

VILLAGE OF NORTH RIVERSIDE
 2345 S DESPLAINES
 NORTH RIVERSIDE, IL
 US 60546
 Contact: Service Manager
 vznrpdw@gmail.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)