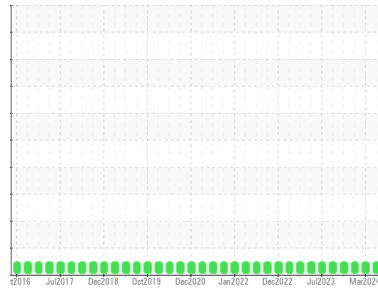


# OIL ANALYSIS REPORT

Area  
**KEMP QUARRIES / RIVER VALLEY OZARK**  
 Machine Id  
**WL112**  
 Component  
**Front Differential**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

### Sample Rating Trend



## 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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0109102</b>	PCA0086923	PCA0084497
Sample Date	Client Info		<b>17 May 2024</b>	19 Mar 2024	09 Feb 2024
Machine Age	hrs Client Info		<b>36272</b>	35919	35658
Oil Age	hrs Client Info		<b>31552</b>	31552	31552
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>500	<b>104</b>	89	60
Chromium	ppm ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm ASTM D5185m		<b>0</b>	<1	0
Silver	ppm ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm ASTM D5185m	>25	<b>&lt;1</b>	3	2
Lead	ppm ASTM D5185m	>25	<b>0</b>	<1	0
Copper	ppm ASTM D5185m	>100	<b>6</b>	6	3
Tin	ppm ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm ASTM D5185m		<b>0</b>	<1	0
Cadmium	ppm ASTM D5185m		<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	<b>1</b>	0	<1
Barium	ppm ASTM D5185m	0	<b>0</b>	1	0
Molybdenum	ppm ASTM D5185m	0	<b>2</b>	1	<1
Manganese	ppm ASTM D5185m	0	<b>1</b>	1	0
Magnesium	ppm ASTM D5185m	9	<b>16</b>	16	15
Calcium	ppm ASTM D5185m	3114	<b>3652</b>	3876	3331
Phosphorus	ppm ASTM D5185m	1099	<b>1087</b>	1081	1080
Zinc	ppm ASTM D5185m	1245	<b>1300</b>	1313	1190
Sulfur	ppm ASTM D5185m	7086	<b>5068</b>	4870	5041

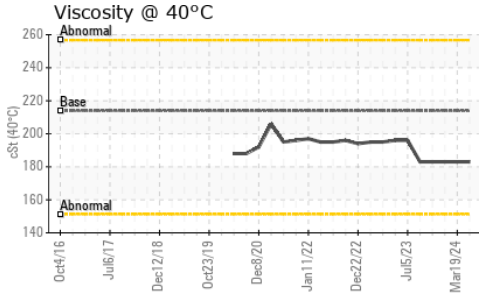
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>75	<b>23</b>	21	19
Sodium	ppm ASTM D5185m		<b>2</b>	0	0
Potassium	ppm ASTM D5185m	>20	<b>0</b>	2	2

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar *Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar *Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar *Visual	>.2	<b>NEG</b>	NEG	NEG
Free Water	scalar *Visual		<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

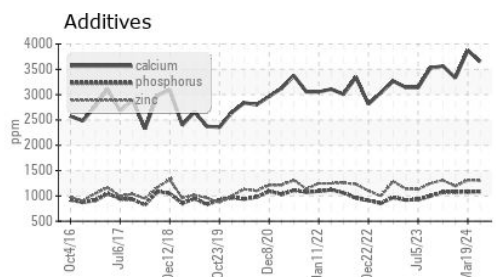
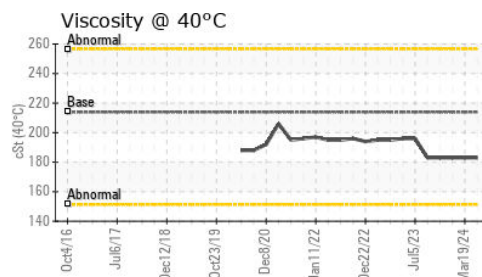
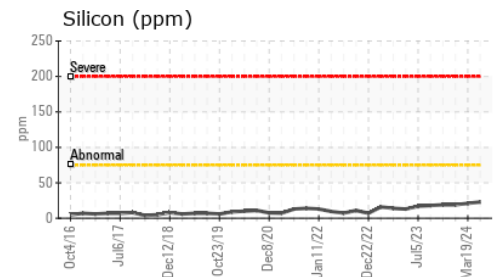
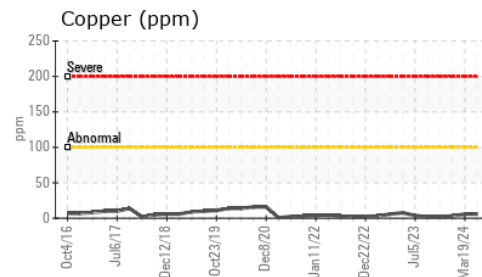
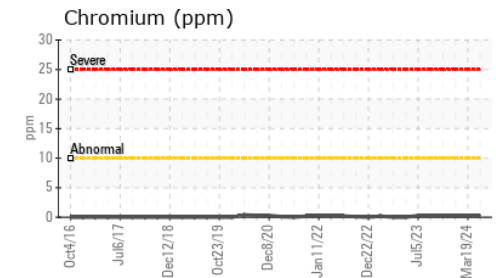
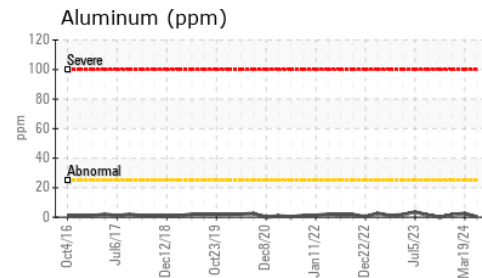
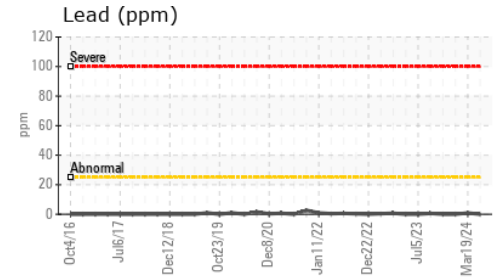
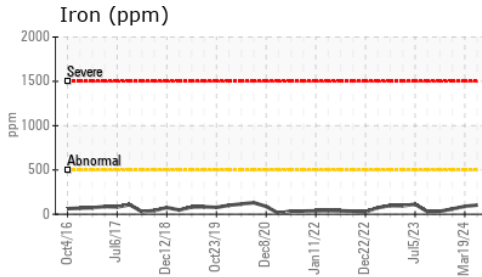


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	213.9	<b>183</b>	183	183

SAMPLE IMAGES	method	limit/base	current	history1	history2
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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.** : PCA0109102  
**Lab Number** : **06191350**  
**Unique Number** : 11048102  
**Test Package** : MOB 1

**Received** : 24 May 2024  
**Tested** : 28 May 2024  
**Diagnosed** : 28 May 2024 - Wes Davis

**Kemp Quarries - River Valley - Ozark**  
 9446 N Hwy 309  
 Ozark, AR  
 US 72949

Contact: OZARK NOTIFICATIONS  
 ozark@rivervalleyquarries.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)

T:  
F: