

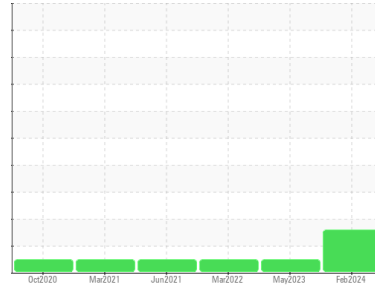
OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area
KEMP QUARRIES / RIVER VALLEY OZARK
Machine Id
OHT113
Component
Rear Differential
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high concentration of water present 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		PCA0084435	PCA0084654	PCA0048227
Sample Date	Client Info		20 Feb 2024	01 May 2023	18 Mar 2022
Machine Age	hrs	Client Info	26095	25814	24551
Oil Age	hrs	Client Info	24551	24551	21870
Oil Changed	Client Info		N/A	N/A	Changed
Sample Status			ABNORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	45	62	66
Chromium	ppm	ASTM D5185m >3	1	<1	<1
Nickel	ppm	ASTM D5185m >3	7	3	3
Titanium	ppm	ASTM D5185m >2	1	0	<1
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >30	7	5	5
Lead	ppm	ASTM D5185m >13	2	0	0
Copper	ppm	ASTM D5185m >103	6	<1	3
Tin	ppm	ASTM D5185m >5	<1	0	<1
Antimony	ppm	ASTM D5185m >5	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	5	0	9
Barium	ppm	ASTM D5185m 0	<1	0	0
Molybdenum	ppm	ASTM D5185m 0	2	2	2
Manganese	ppm	ASTM D5185m 0	<1	0	<1
Magnesium	ppm	ASTM D5185m 9	24	41	22
Calcium	ppm	ASTM D5185m 3114	1528	1511	1350
Phosphorus	ppm	ASTM D5185m 1099	680	472	654
Zinc	ppm	ASTM D5185m 1245	795	613	737
Sulfur	ppm	ASTM D5185m 7086	3020	4141	3466

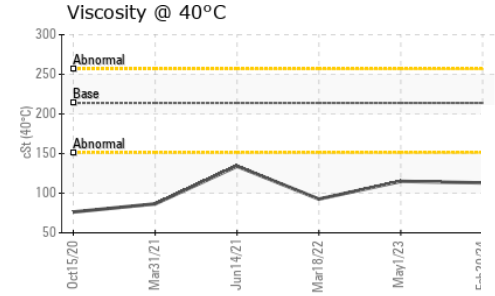
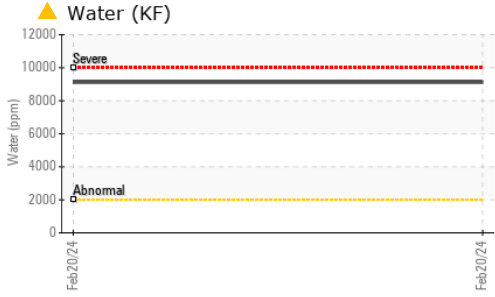
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	36	47	20
Sodium	ppm	ASTM D5185m	5	<1	1
Potassium	ppm	ASTM D5185m >20	3	0	0
Water	%	ASTM D6304 >.2	▲ 0.912	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ 9120	---	---

VISUAL



	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	MODER	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >.2	0.2%	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

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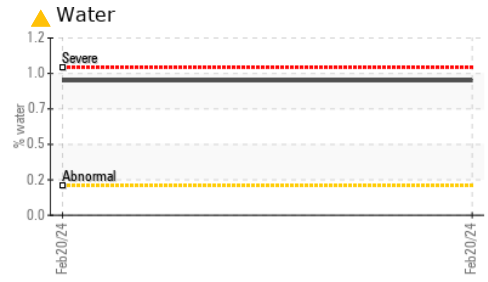
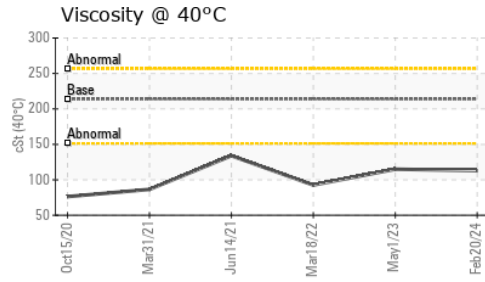
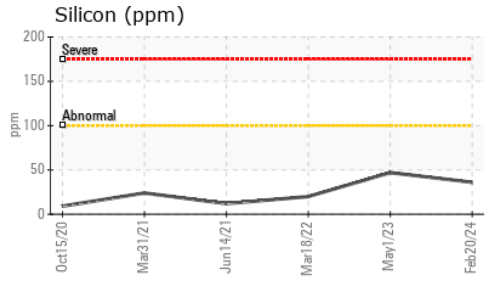
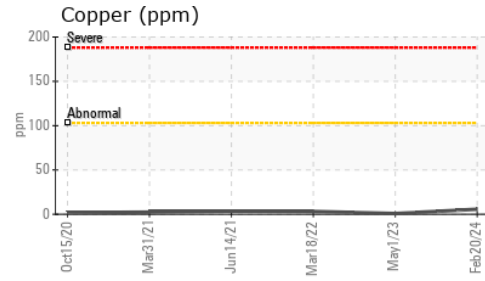
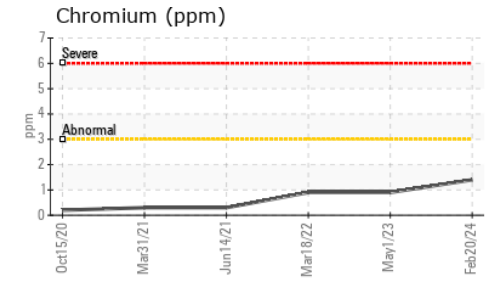
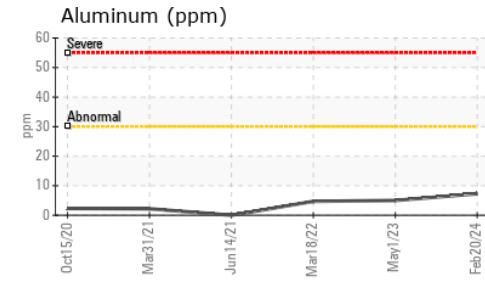
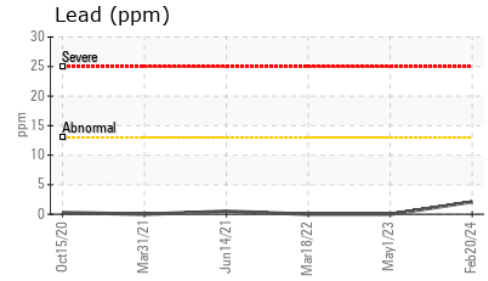
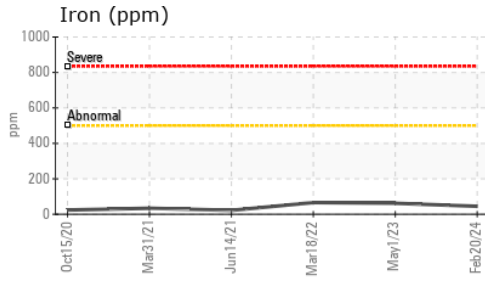


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	113	115	92.6

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0084435
Lab Number : 06100449
Unique Number : 10898679
Test Package : MOB 1 (Additional Tests: KF)

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

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)

Contact: ozark@rivervalleyquarries.com

T:
F: