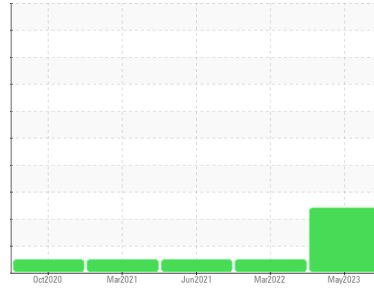


OIL ANALYSIS REPORT



Area
KEMP QUARRIES / RIVER VALLEY OZARK
Machine Id
OHT113
Component
Transmission (Manual)
Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

Sample Rating Trend



VISCOSITY



DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. 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 fluid.

▲ Fluid Condition

The fluid viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of fluid. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0084653	PCA0048230	PCA0034375
Sample Date	Client Info		01 May 2023	18 Mar 2022	14 Jun 2021
Machine Age	hrs	Client Info	25813	24551	24204
Oil Age	hrs	Client Info	24551	21870	0
Oil Changed	Client Info		N/A	Changed	Not Chngd
Sample Status			ATTENTION	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	96	68	20
Chromium	ppm	ASTM D5185m >5	5	<1	<1
Nickel	ppm	ASTM D5185m >5	30	0	<1
Titanium	ppm	ASTM D5185m	2	1	<1
Silver	ppm	ASTM D5185m >7	0	1	0
Aluminum	ppm	ASTM D5185m >25	21	21	5
Lead	ppm	ASTM D5185m >45	0	1	1
Copper	ppm	ASTM D5185m >225	3	94	8
Tin	ppm	ASTM D5185m >10	0	1	<1
Antimony	ppm	ASTM D5185m	---	---	<1
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	4	5	8
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	7	2	2
Manganese	ppm	ASTM D5185m 9	1	<1	<1
Magnesium	ppm	ASTM D5185m 1	▲ 93	25	23
Calcium	ppm	ASTM D5185m 3131	▲ 204	2906	3048
Phosphorus	ppm	ASTM D5185m 1194	▲ 423	1016	1025
Zinc	ppm	ASTM D5185m 1281	▲ 525	1082	1262
Sulfur	ppm	ASTM D5185m 3811	▲ 1070	4699	5117

CONTAMINANTS

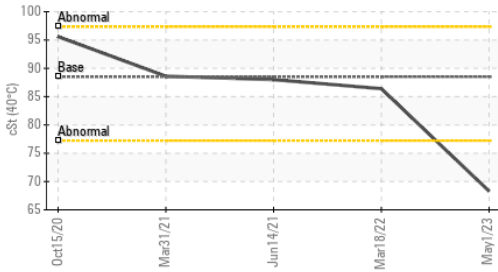
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	102	38	10
Sodium	ppm	ASTM D5185m	<1	3	3
Potassium	ppm	ASTM D5185m >20	5	5	2

VISUAL

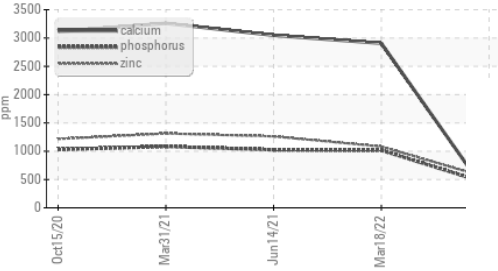
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.1	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

▲ Viscosity @ 40°C



▲ Additives



FLUID PROPERTIES

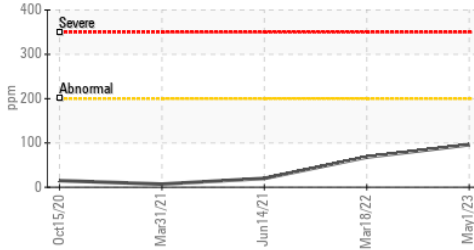
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	88.5 ▲ 68.3	86.4	88.0

SAMPLE IMAGES

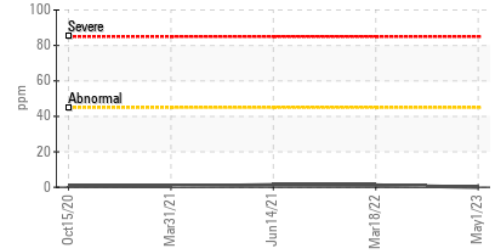
method	limit/base	current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image

GRAPHS

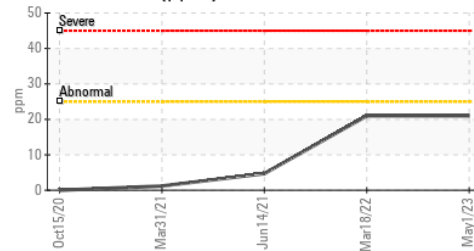
Iron (ppm)



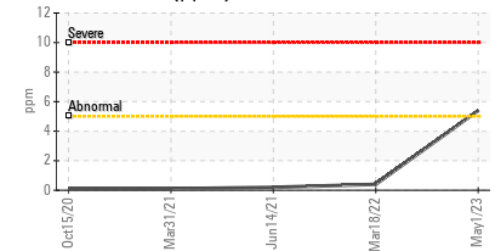
Lead (ppm)



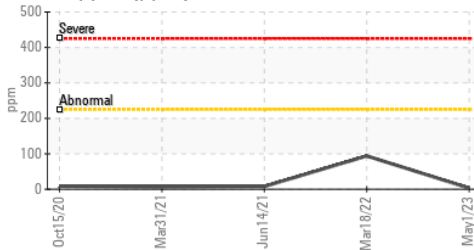
Aluminum (ppm)



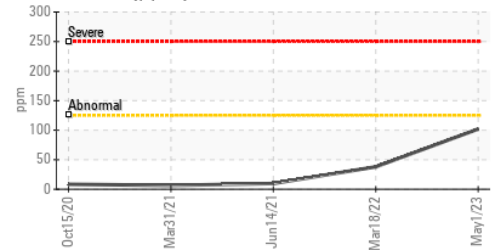
Chromium (ppm)



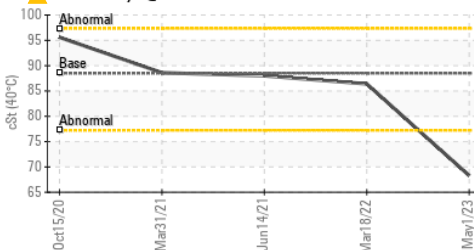
Copper (ppm)



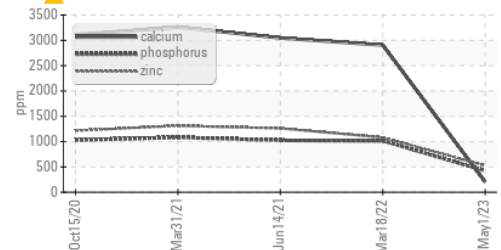
Silicon (ppm)



▲ Viscosity @ 40°C



▲ Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0084653
Lab Number : 05846525
Unique Number : 10470632
Test Package : MOB 1

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: