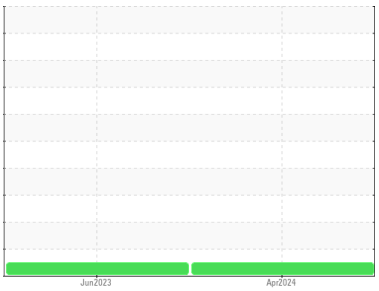
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
KEMP QUARRIES / RIVER VALLEY ARKOMA
Machine Id
WL152
Component
Rear Differential
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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		**PCA0086969**	PCA0086360	---
Sample Date		Client Info		**15 Apr 2024**	16 Jun 2023	---
Machine Age	hrs	Client Info		**31696**	31129	---
Oil Age	hrs	Client Info		**51**	31129	---
Oil Changed		Client Info		**Not Changd**	Changed	---
Sample Status				**NORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	---

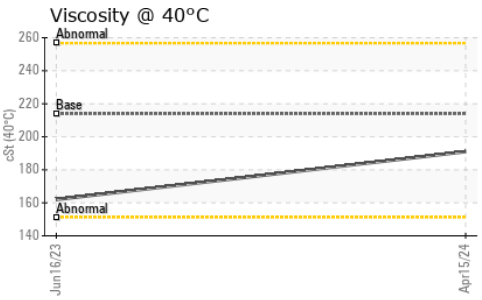
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**19**	112	---
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	---
Nickel	ppm	ASTM D5185m	>10	**<1**	<1	---
Titanium	ppm	ASTM D5185m		**<1**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	**2**	2	---
Lead	ppm	ASTM D5185m	>25	**<1**	1	---
Copper	ppm	ASTM D5185m	>100	**10**	56	---
Tin	ppm	ASTM D5185m	>10	**<1**	2	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**<1**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	**0**	<1	---
Barium	ppm	ASTM D5185m	0	**0**	0	---
Molybdenum	ppm	ASTM D5185m	0	**1**	1	---
Manganese	ppm	ASTM D5185m	0	**<1**	1	---
Magnesium	ppm	ASTM D5185m	9	**17**	22	---
Calcium	ppm	ASTM D5185m	3114	**3344**	3147	---
Phosphorus	ppm	ASTM D5185m	1099	**830**	1059	---
Zinc	ppm	ASTM D5185m	1245	**1025**	1302	---
Sulfur	ppm	ASTM D5185m	7086	**4527**	8696	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**9**	8	---
Sodium	ppm	ASTM D5185m		**0**	<1	---
Potassium	ppm	ASTM D5185m	>20	**2**	1	---

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

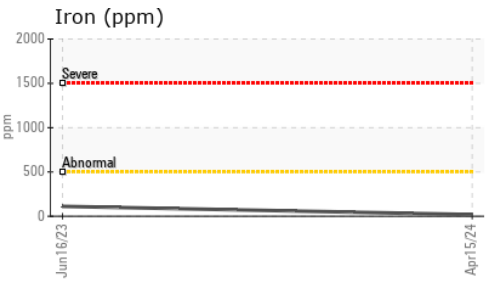
OIL ANALYSIS REPORT

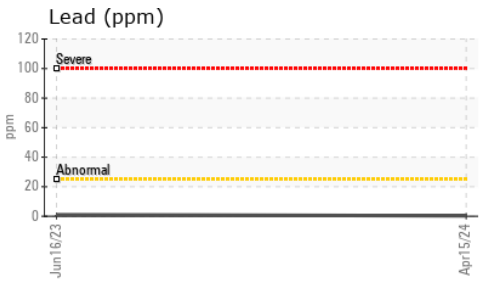


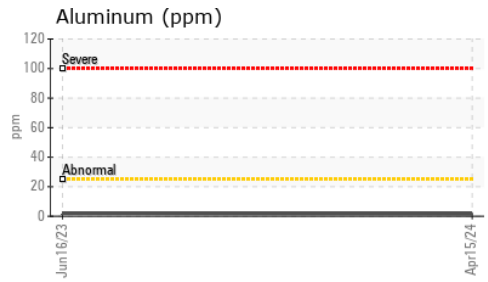
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	**191**	162	---

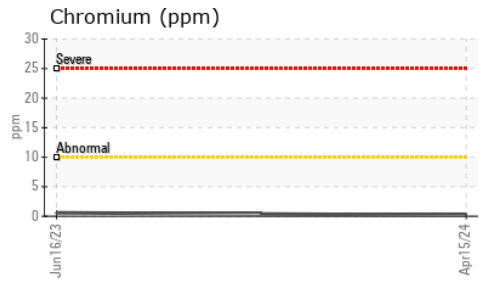
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

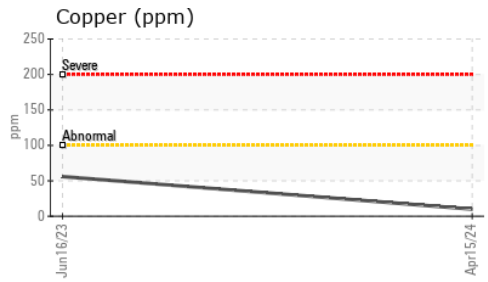
GRAPHS

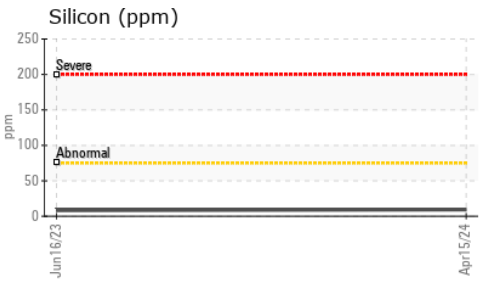


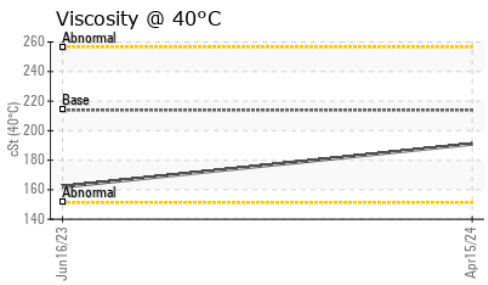


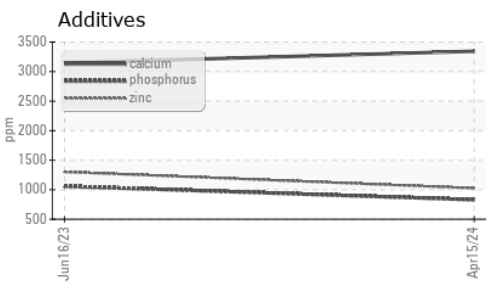












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086969
Lab Number : 06155365
Unique Number : 10990788
Test Package : MOB 1

Received : 19 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Wes Davis

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)

Kemp Quarries - River Valley - Arkoma
12971 HWY 9a
Shawnee, OK
US 74804
Contact:
arkomashop@kempquarries.net
T:
F:

Report Id: KEMSHA [WUSCAR] 06155365 (Generated: 04/23/2024 00:14:22) Rev: 1

Submitted By: