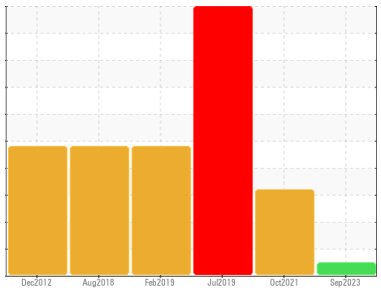
OIL ANALYSIS REPORT

Area
KEMP QUARRIES / PRYOR STONE [66330]
Machine Id
TTT004
Component
Rear Left Final Drive
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

Sample Rating Trend



NORMAL

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment: PM-4 changed fluid)

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		**PCA0086488**	PCA0011225	PCA14309017
Sample Date		Client Info		**20 Sep 2023**	08 Oct 2021	23 Jul 2019
Machine Age	hrs	Client Info		**5685**	5517	4737
Oil Age	hrs	Client Info		**5685**	4737	0
Oil Changed		Client Info		**Changed**	Changed	N/A
Sample Status				**NORMAL**	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	**160**	▲ 849	⬢ 527
Chromium	ppm	ASTM D5185m	>10	**1**	5	2
Nickel	ppm	ASTM D5185m	>5	**<1**	2	1
Titanium	ppm	ASTM D5185m	>15	**<1**	2	0
Silver	ppm	ASTM D5185m	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185m	>75	**11**	▲ 20	10
Lead	ppm	ASTM D5185m	>10	**<1**	<1	0
Copper	ppm	ASTM D5185m	>75	**0**	3	1
Tin	ppm	ASTM D5185m	>8	**0**	<1	1
Antimony	ppm	ASTM D5185m	>50	**---**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	**4**	15	7
Barium	ppm	ASTM D5185m	0	**0**	0	1
Molybdenum	ppm	ASTM D5185m	0	**0**	2	3
Manganese	ppm	ASTM D5185m	0	**3**	12	0
Magnesium	ppm	ASTM D5185m	9	**22**	22	33
Calcium	ppm	ASTM D5185m	3114	**3239**	2912	2366
Phosphorus	ppm	ASTM D5185m	1099	**1128**	1008	844
Zinc	ppm	ASTM D5185m	1245	**1396**	1207	1069
Sulfur	ppm	ASTM D5185m	7086	**5683**	7819	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	**95**	▲ 157	⬢ 94
Sodium	ppm	ASTM D5185m		**2**	5	5
Potassium	ppm	ASTM D5185m	>20	**<1**	7	5

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	>0.2	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

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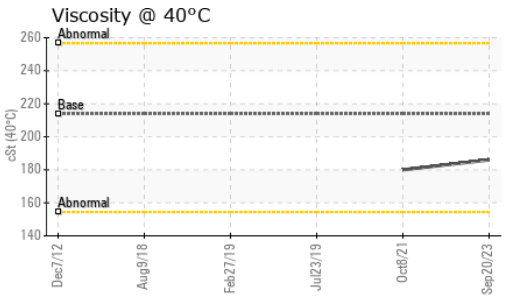
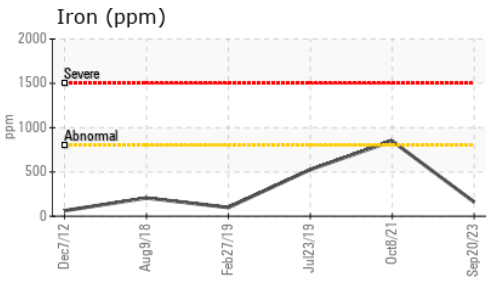
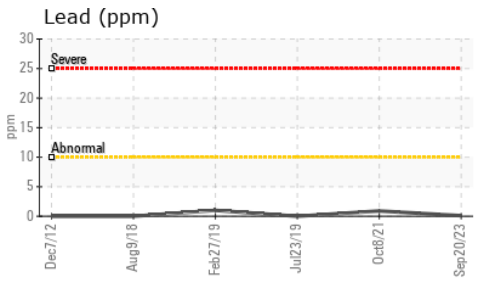


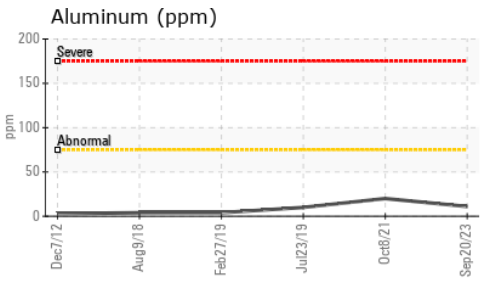
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	**186**	180	---

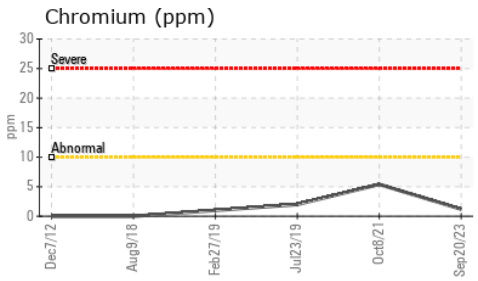
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

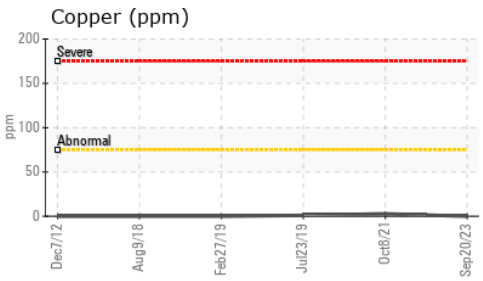
GRAPHS

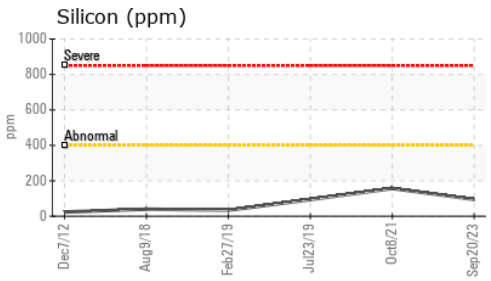


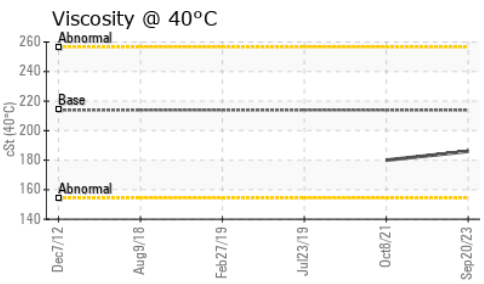


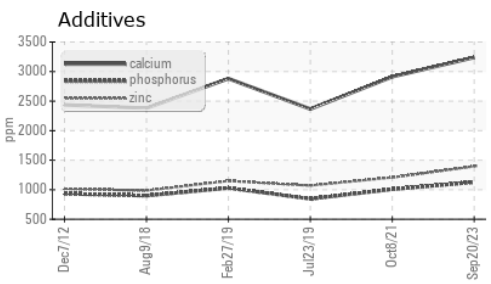












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086488
Lab Number : 05966727
Unique Number : 10673278
Test Package : MOB 1

Received : 02 Oct 2023
Diagnosed : 04 Oct 2023
Diagnostician : Don Baldridge

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)

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Report Id: KEMPRY [WUSCAR] 05966727 (Generated: 10/04/2023 13:04:17) Rev: 1

Submitted By: