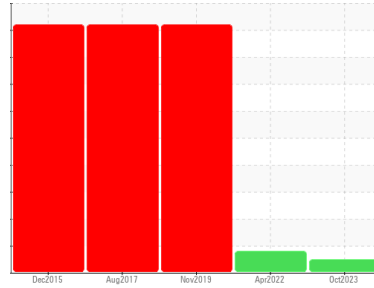


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
KEMP QUARRIES / KEMP STONE - FAIRLAND [62857]
 Machine Id
CRN014
 Component
Front Differential
 Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 sampled 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	PCA0087022	PCA0034289	PCA36409029
Sample Date	Client Info	31 Oct 2023	13 Apr 2022	18 Nov 2019
Machine Age	hrs	Client Info	1150	324
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	Changed	N/A
Sample Status		NORMAL	ABNORMAL	SEVERE

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >500	112	▲ 703	● 485
Chromium	ppm	ASTM D5185m >10	0	4	2
Nickel	ppm	ASTM D5185m >10	0	2	2
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m >25	3	8	4
Lead	ppm	ASTM D5185m >25	0	6	5
Copper	ppm	ASTM D5185m >100	4	53	▲ 40
Tin	ppm	ASTM D5185m >10	0	2	2
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	271	40	26
Barium	ppm	ASTM D5185m 0	0	0	3
Molybdenum	ppm	ASTM D5185m 0	0	<1	1
Manganese	ppm	ASTM D5185m 0	2	14	0
Magnesium	ppm	ASTM D5185m 9	3	7	7
Calcium	ppm	ASTM D5185m 3114	78	64	18
Phosphorus	ppm	ASTM D5185m 1099	1013	927	744
Zinc	ppm	ASTM D5185m 1245	34	37	22
Sulfur	ppm	ASTM D5185m 7086	20267	19071	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >75	18	34	▲ 19
Sodium	ppm	ASTM D5185m	2	8	7
Potassium	ppm	ASTM D5185m >20	<1	<1	1

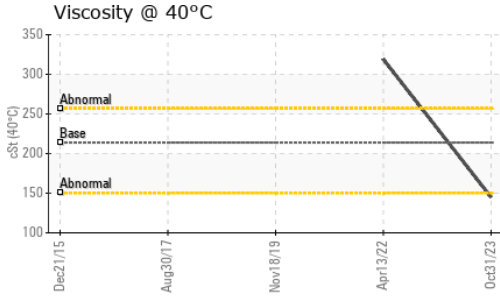
VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	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	---

FLUID PROPERTIES

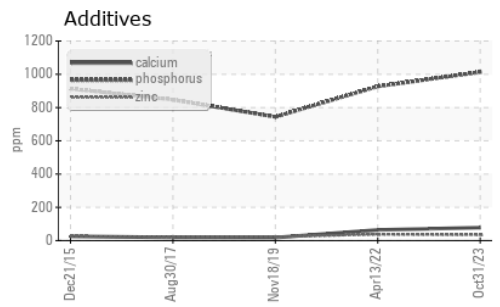
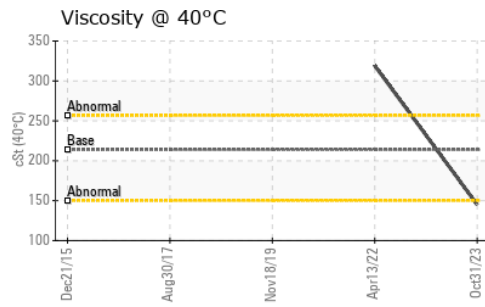
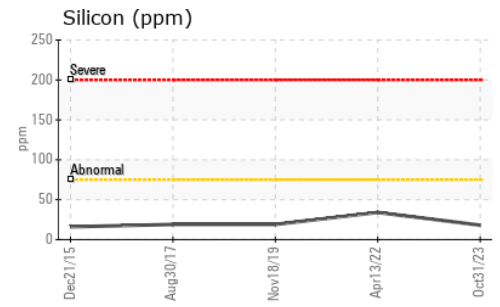
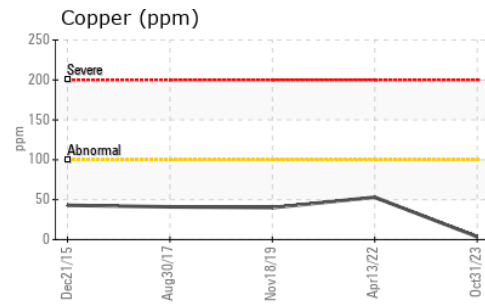
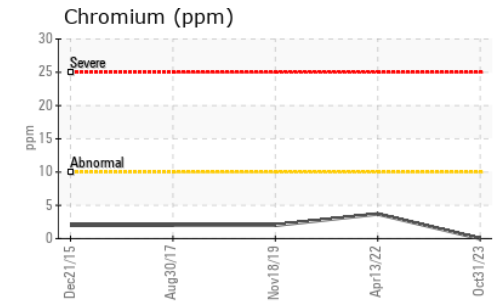
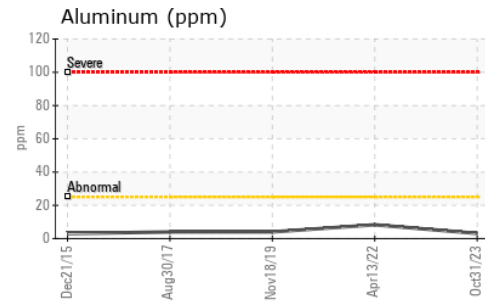
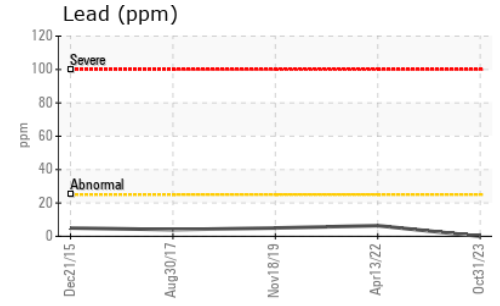
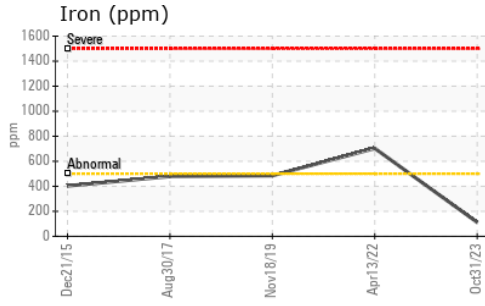
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445 213.9	145	319	---

OIL ANALYSIS REPORT



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. : PCA0087022 **Received** : 13 Nov 2023
Lab Number : 06006597 **Diagnosed** : 15 Nov 2023
Unique Number : 10740359 **Diagnostician** : Don Baldrige
Test Package : MOB 1

Kemp Quarries - Kemp Stone - Fairland
 18350 S 590 Rd
 Fairland, OK
 US 74343
 Contact:

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)

fairland@kempstone.com

T:

F: