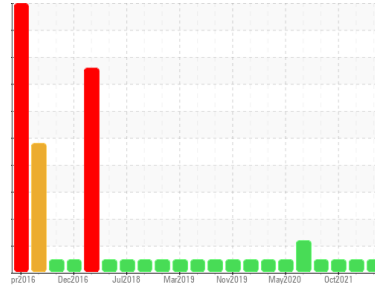


OIL ANALYSIS REPORT



Area
KEMP QUARRIES / SELIGMAN [67979]
Machine Id
CATERPILLAR 980G CATERPILLAR WL102
Component
Rear Differential
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	PCA0084366	PCA0033790	PCA0025114
Sample Date	Client Info	09 Nov 2023	05 Apr 2022	25 Oct 2021
Machine Age	hrs	39985	39907	38950
Oil Age	hrs	39985	39907	0
Oil Changed	Client Info	Changed	Not Changd	Oil Added
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	39	35	24
Chromium	ppm ASTM D5185m >3	0	<1	<1
Nickel	ppm ASTM D5185m >3	0	0	0
Titanium	ppm ASTM D5185m >2	0	0	<1
Silver	ppm ASTM D5185m >2	0	0	<1
Aluminum	ppm ASTM D5185m >30	0	<1	1
Lead	ppm ASTM D5185m >13	0	<1	<1
Copper	ppm ASTM D5185m >103	0	<1	<1
Tin	ppm ASTM D5185m >5	0	0	<1
Antimony	ppm ASTM D5185m >5	---	---	0
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	0	2	11
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 0	<1	2	2
Manganese	ppm ASTM D5185m 0	0	<1	<1
Magnesium	ppm ASTM D5185m 9	28	27	30
Calcium	ppm ASTM D5185m 3114	2982	3224	3261
Phosphorus	ppm ASTM D5185m 1099	1065	1079	1103
Zinc	ppm ASTM D5185m 1245	1291	1356	1274
Sulfur	ppm ASTM D5185m 7086	6083	5552	5783

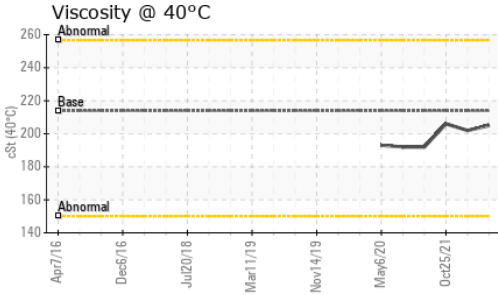
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >100	14	11	11
Sodium	ppm ASTM D5185m	1	0	1
Potassium	ppm ASTM D5185m >20	0	2	0

VISUAL

method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	NONE	LIGHT	LIGHT
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 >.2	NEG	NEG	NEG
Free Water	scalar *Visual	NEG	NEG	NEG

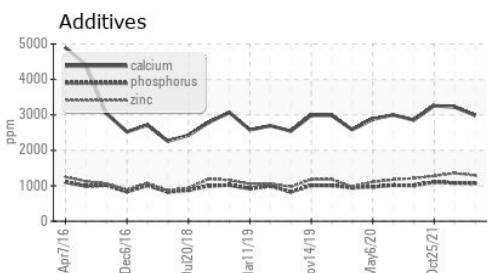
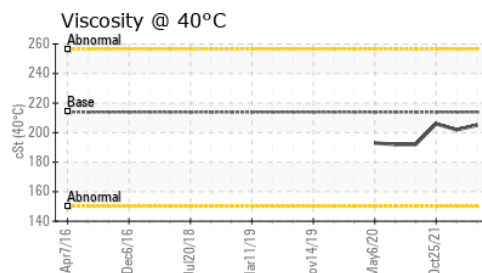
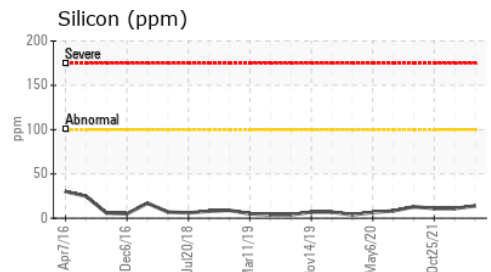
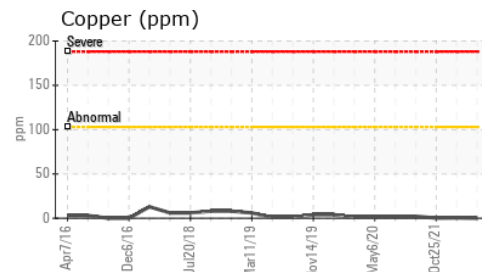
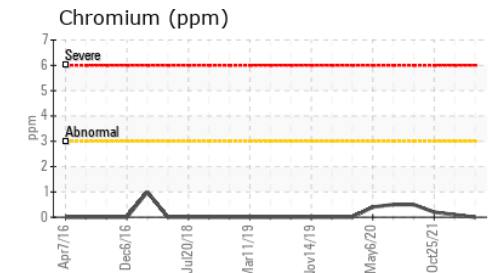
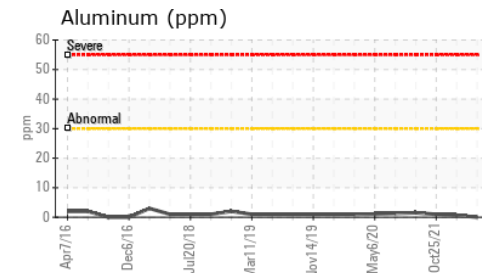
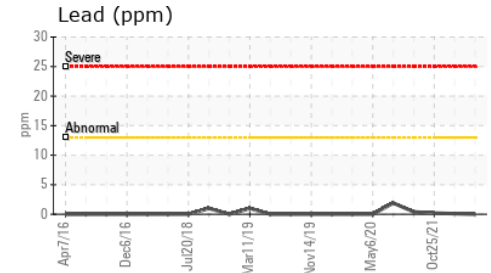
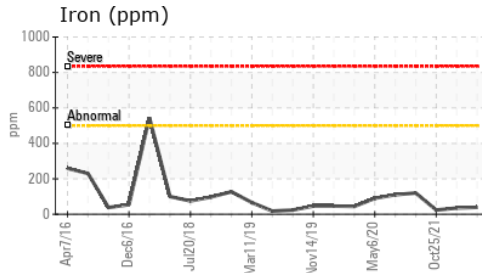
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	205	202	206

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. : PCA0084366 **Received** : 20 Nov 2023
Lab Number : 06013560 **Diagnosed** : 22 Nov 2023
Unique Number : 10752704 **Diagnostician** : Sean Felton
Test Package : MOB 1

Kemp Quarries - BCS - Seligman
 8261 Farm rd 2295
 Seligman, MO
 US 65745
 Contact: TECHNICIAN ACCOUNT
 catherine.anastasio@wearcheck.com

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)

T:
F: