

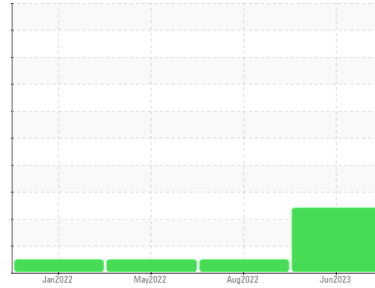
# OIL ANALYSIS REPORT

Sample Rating Trend

**WATER**



Area  
**KEMP QUARRIES / KEMP STONE - FAIRLAND**  
Machine Id  
**OHT123**  
Component  
**Rear Left Final Drive**  
Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**



**DIAGNOSIS**

**Recommendation**  
Resample at the next service interval to monitor. ( Customer Sample Comment: PM-3 sampled fluid )

**Wear**  
All component wear rates are normal.

**Contamination**  
Appearance is hazy. There is a light concentration of water present in the oil.

**Fluid Condition**  
The condition of the oil is acceptable for the time in service.

**SAMPLE INFORMATION**

method	limit/base	current	history 1	history 2
Sample Number	Client Info	<b>PCA0086310</b>	PCA0062445	PCA0061932
Sample Date	Client Info	<b>21 Jun 2023</b>	31 Aug 2022	25 May 2022
Machine Age	hrs	<b>37279</b>	36774	36356
Oil Age	hrs	<b>37279</b>	36774	36356
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ATTENTION</b>	NORMAL	NORMAL

**WEAR METALS**

method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185m >500	<b>27</b>	43	40
Chromium	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	2	2
Lead	ppm	ASTM D5185m >25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >50	<b>10</b>	3	2
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

**ADDITIVES**

method	limit/base	current	history 1	history 2	
Boron	ppm	ASTM D5185m 2	<b>2</b>	3	3
Barium	ppm	ASTM D5185m 0	<b>15</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>2</b>	<1	<1
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 9	<b>32</b>	18	20
Calcium	ppm	ASTM D5185m 3114	<b>3152</b>	2464	2762
Phosphorus	ppm	ASTM D5185m 1099	<b>934</b>	854	930
Zinc	ppm	ASTM D5185m 1245	<b>1209</b>	1079	1164
Sulfur	ppm	ASTM D5185m 7086	<b>5149</b>	4282	4832

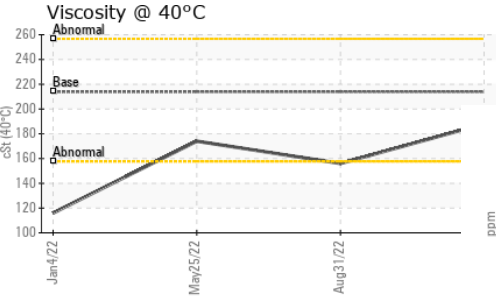
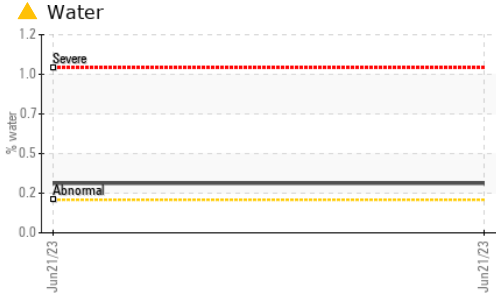
**CONTAMINANTS**

method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185m >75	<b>45</b>	12	11
Sodium	ppm	ASTM D5185m	<b>1</b>	0	2
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Water	%	ASTM D6304 >0.2	<b>▲ 0.300</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>▲ 3000</b>	---	---

**VISUAL**

method	limit/base	current	history 1	history 2	
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>▲ HAZY</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	<b>0.2%</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

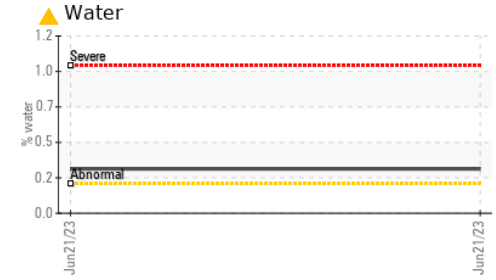
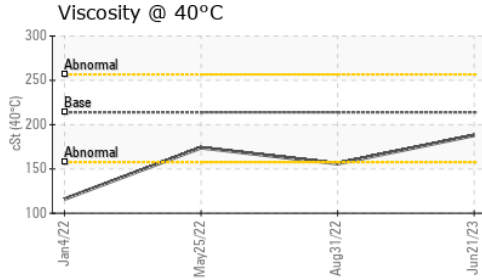
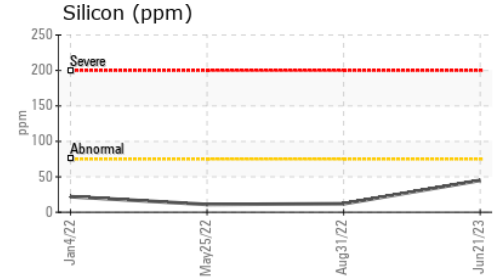
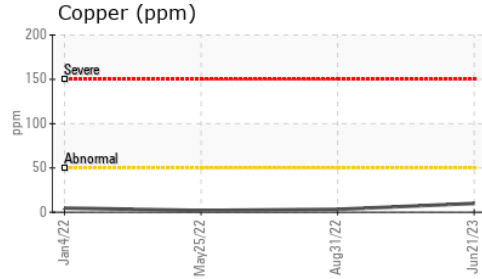
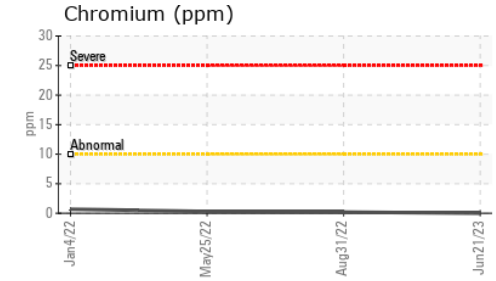
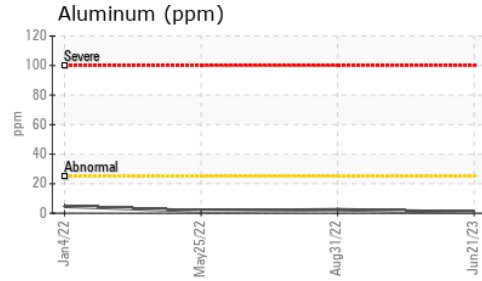
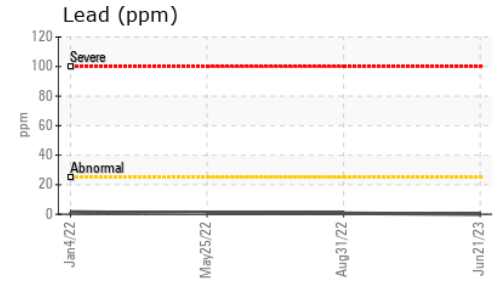
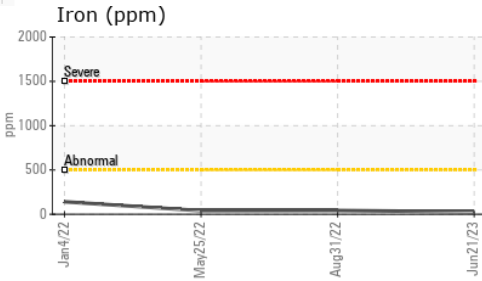


FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	213.9	<b>188</b>	156	174

SAMPLE IMAGES		method	limit/base	current	history 1	history 2
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Color		no image	no image	no image
Bottom		no image	no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0086310 **Received** : 30 Jun 2023  
**Lab Number** : 05888533 **Diagnosed** : 05 Jul 2023  
**Unique Number** : 10539016 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: KF )

**Kemp Quarries - Kemp Stone - Fairland**  
 18350 S 590 Rd  
 Fairland, OK  
 US 74343  
 Contact:  
 fairland@kempstone.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)