



Area  
**KEMP QUARRIES / RIVER VALLEY OZARK**  
Machine Id  
**OHT113**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 68 (--- GAL)**

**RECOMMENDATION**

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0084434</b>	PCA0084655	PCA0048228
Sample Date		Client Info		<b>20 Feb 2024</b>	01 May 2023	18 Mar 2022
Machine Age	hrs	Client Info		<b>25814</b>	25814	24551
Oil Age	hrs	Client Info		<b>24551</b>	24551	21870
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

The iron level is abnormal.

Iron	ppm	ASTM D5185m	>20	<b>▲ 34</b>	▲ 79	▲ 42
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>10	<b>10</b>	0	9
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	1	0
Aluminum	ppm	ASTM D5185m	>10	<b>● 6</b>	● 23	● 8
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	0
Copper	ppm	ASTM D5185m	>75	<b>1</b>	▲ 151	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

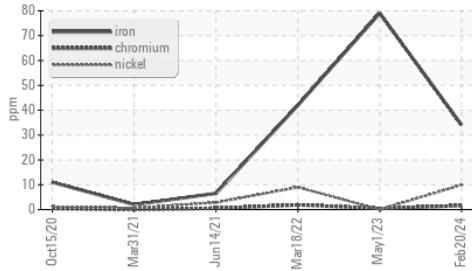
Silicon	ppm	ASTM D5185m	>20	<b>▲ 32</b>	▲ 39	▲ 33
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	5	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

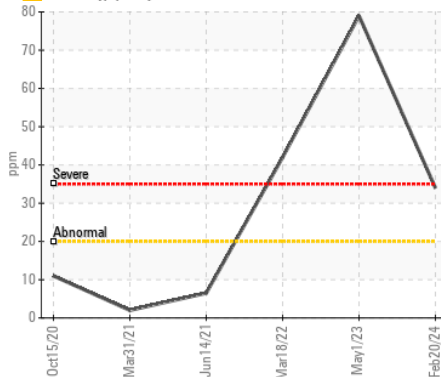
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	2	0
Boron	ppm	ASTM D5185m	0	<b>6</b>	2	4
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>4</b>	2	3
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	0	<b>25</b>	● 27	29
Calcium	ppm	ASTM D5185m	50	<b>150</b>	● 2889	200
Phosphorus	ppm	ASTM D5185m	330	<b>357</b>	● 976	393
Zinc	ppm	ASTM D5185m	430	<b>448</b>	● 1204	414
Sulfur	ppm	ASTM D5185m	760	<b>731</b>	● 5057	913
Visc @ 40°C	cSt	ASTM D445	67.4	<b>65.3</b>	● 86.6	65.6

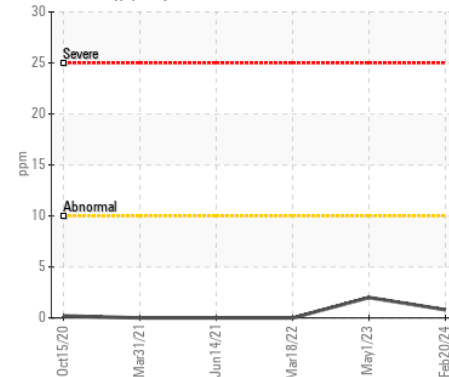
**▲ Ferrous Alloys**



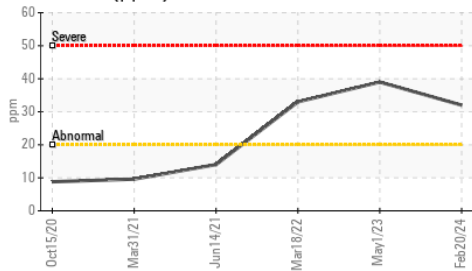
**▲ Iron (ppm)**



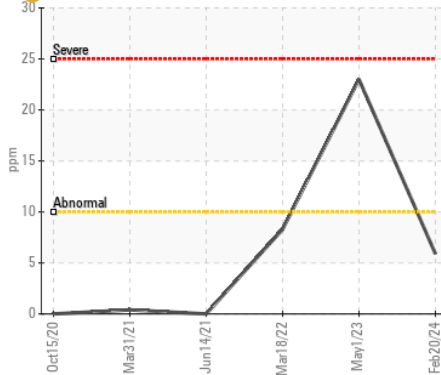
**Lead (ppm)**



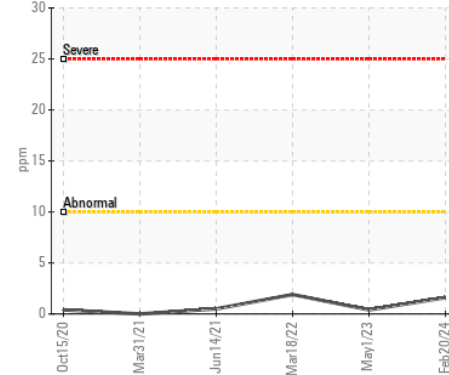
**▲ Silicon (ppm)**



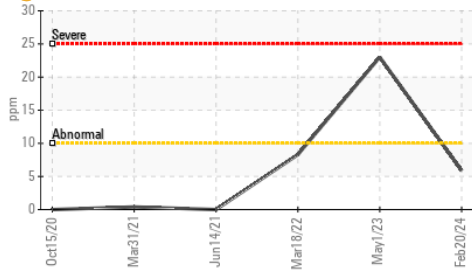
**● Aluminum (ppm)**



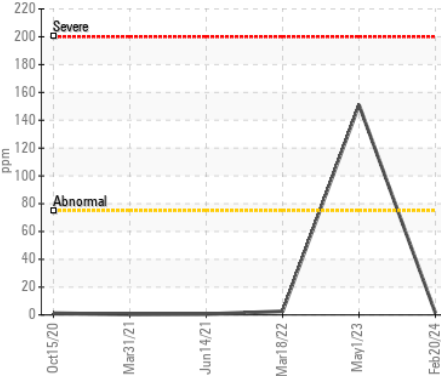
**Chromium (ppm)**



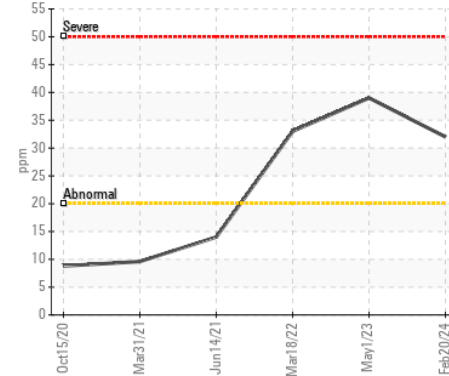
**● Aluminum (ppm)**



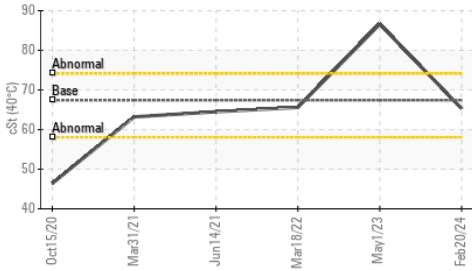
**Copper (ppm)**



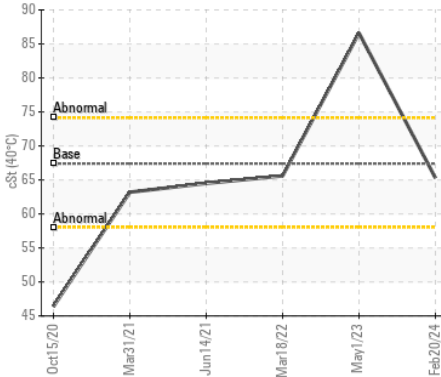
**▲ Silicon (ppm)**



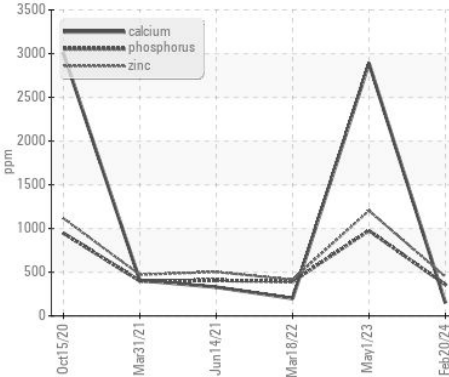
**Viscosity @ 40°C**



**Viscosity @ 40°C**



**Additives**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0084434  
**Lab Number** : 06100561  
**Unique Number** : 10898791  
**Test Package** : MOB 1

**Kemp Quarries - River Valley - Ozark**  
 9446 N Hwy 309  
 Ozark, AR  
 US 72949  
 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)

ozark@rivervalleyquarries.com

T:  
F: