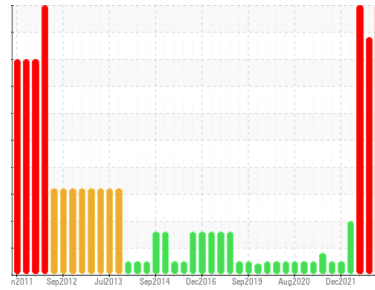


# OIL ANALYSIS REPORT



Area  
**KEMP QUARRIES / PRYOR STONE [62048]**  
Machine Id  
**OHT058**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 68 (--- GAL)**

Sample Rating Trend



**VISUAL METAL**



## DIAGNOSIS

### Recommendation

We advise that you check all areas where dirt can enter the system. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. ( Customer Sample Comment: Pm2 performed. All oil samples taken. Engine oil, transmission oil, and all filters changed. )

### Wear

The iron level has decreased, but is still severe. Moderate concentration of visible metal present.

### Contamination

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

### 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		<b>PCA0083984</b>	PCA0049015	PCA0062517
Sample Date	Client Info		<b>05 May 2023</b>	07 Nov 2022	10 Jun 2022
Machine Age	hrs	Client Info	<b>50583</b>	50124	49501
Oil Age	hrs	Client Info	<b>1082</b>	623	2083
Oil Changed	Client Info		<b>Oil Added</b>	Oil Added	Changed
Sample Status			<b>SEVERE</b>	SEVERE	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>268</b>	470	176
Chromium	ppm	ASTM D5185m >10	<1	1	<1
Nickel	ppm	ASTM D5185m >10	1	0	2
Titanium	ppm	ASTM D5185m	<1	<1	1
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>17</b>	7	30
Lead	ppm	ASTM D5185m >10	<1	<1	2
Copper	ppm	ASTM D5185m >75	12	17	29
Tin	ppm	ASTM D5185m >10	2	<1	1
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 0	0	<1	<1
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	<1	0	<1
Manganese	ppm	ASTM D5185m 0	2	3	1
Magnesium	ppm	ASTM D5185m 0	3	2	7
Calcium	ppm	ASTM D5185m 50	74	70	46
Phosphorus	ppm	ASTM D5185m 330	366	299	308
Zinc	ppm	ASTM D5185m 430	439	360	283
Sulfur	ppm	ASTM D5185m 760	1113	896	661

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>46</b>	43	77
Sodium	ppm	ASTM D5185m	1	0	2
Potassium	ppm	ASTM D5185m >20	3	3	13

## VISUAL

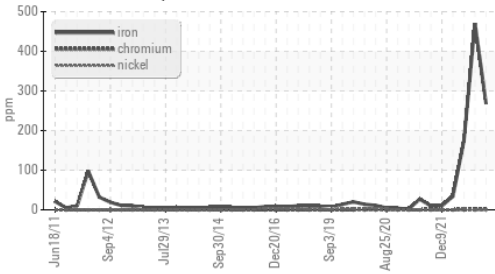
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>MODER</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	MODER	NONE
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
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

## FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 67.4	<b>66.5</b>	66.2	66.5

# OIL ANALYSIS REPORT

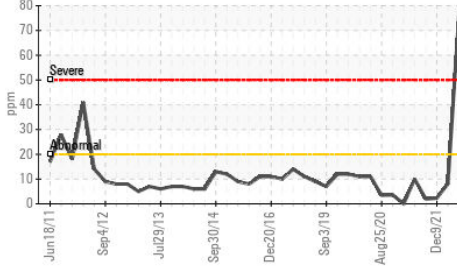
## Ferrous Alloys



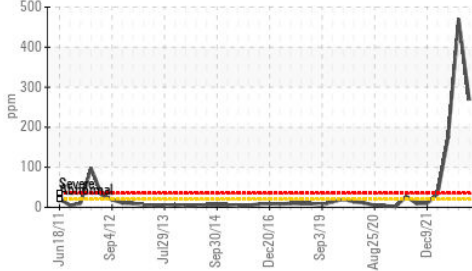
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS

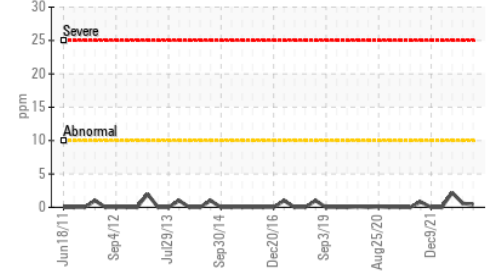
### ▲ Silicon (ppm)



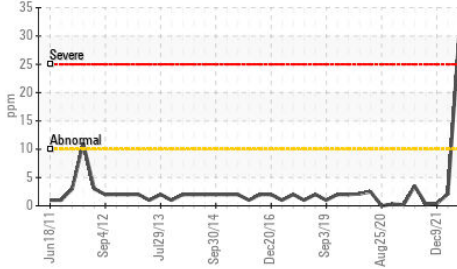
### ● Iron (ppm)



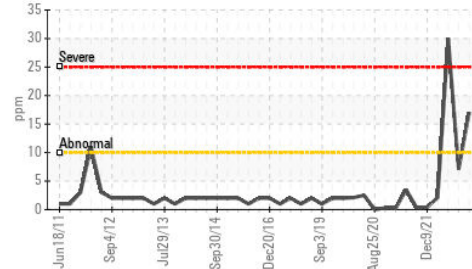
### Lead (ppm)



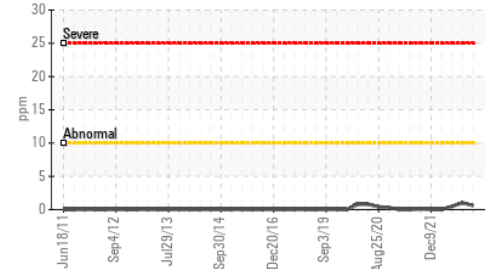
### ▲ Aluminum (ppm)



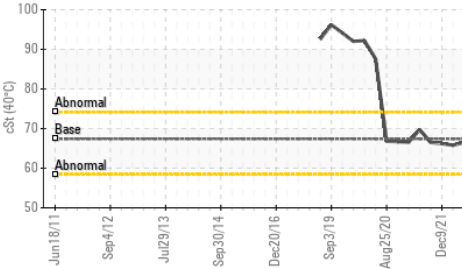
### ▲ Aluminum (ppm)



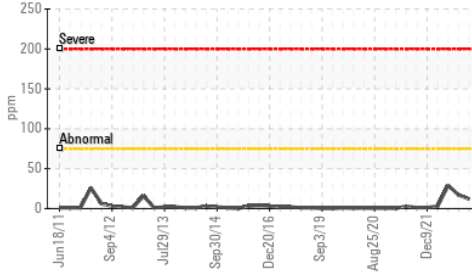
### Chromium (ppm)



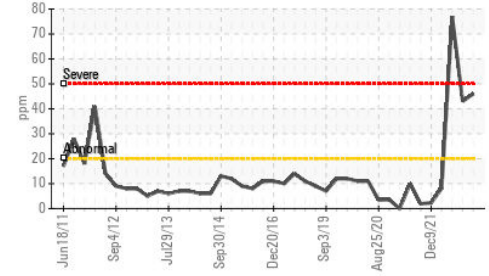
### Viscosity @ 40°C



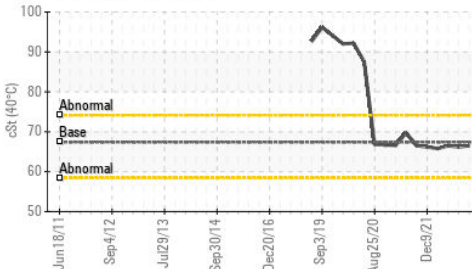
### Copper (ppm)



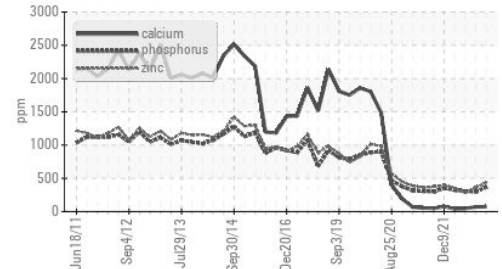
### ▲ Silicon (ppm)



### Viscosity @ 40°C



### Additives



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0083984  
**Lab Number** : 05865377  
**Unique Number** : 10499842  
**Test Package** : MOB 1

**Kemp Quarries - Pryor Stone - Pryor**  
 1050 E 520 Rd  
 Pryor, OK  
 US 74361

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)

Contact: pryor@pryorstone.com

T:

F: