

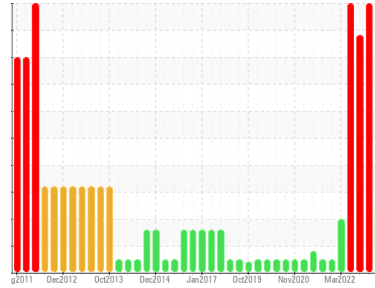


OIL ANALYSIS REPORT



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

Sample Rating Trend



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Pm3 performed. All oil samples taken. Engine oil, and all filters changed.)

Wear

The iron level has decreased, but is still abnormal. All other component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

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	PCA0084059	PCA0083984	PCA0049015	
Sample Date	Client Info	09 Aug 2023	05 May 2023	07 Nov 2022	
Machine Age	hrs	Client Info	51041	50583	50124
Oil Age	hrs	Client Info	49501	1082	623
Oil Changed	Client Info	Oil Added	Oil Added	Oil Added	
Sample Status		ABNORMAL	SEVERE	SEVERE	

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >20	▲ 44	268	470
Chromium ppm	ASTM D5185m >10	0	<1	1
Nickel ppm	ASTM D5185m >10	0	1	0
Titanium ppm	ASTM D5185m	0	<1	<1
Silver ppm	ASTM D5185m	0	0	0
Aluminum ppm	ASTM D5185m >10	4	▲ 17	▲ 7
Lead ppm	ASTM D5185m >10	0	<1	<1
Copper ppm	ASTM D5185m >75	5	12	17
Tin ppm	ASTM D5185m >10	<1	2	<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	0	<1
Barium ppm	ASTM D5185m 0	0	0	0
Molybdenum ppm	ASTM D5185m 0	0	<1	0
Manganese ppm	ASTM D5185m 0	<1	2	3
Magnesium ppm	ASTM D5185m 0	0	3	2
Calcium ppm	ASTM D5185m 50	48	74	70
Phosphorus ppm	ASTM D5185m 330	349	366	299
Zinc ppm	ASTM D5185m 430	420	439	360
Sulfur ppm	ASTM D5185m 760	1001	1113	896

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >20	▲ 27	▲ 46	▲ 43
Sodium ppm	ASTM D5185m	0	1	0
Potassium ppm	ASTM D5185m >20	0	3	3

VISUAL

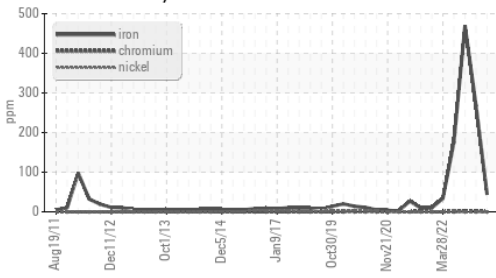
method	limit/base	current	history1	history2
White Metal scalar	*Visual NONE	NONE	MODER	NONE
Yellow Metal scalar	*Visual NONE	NONE	NONE	NONE
Precipitate scalar	*Visual NONE	NONE	NONE	NONE
Silt scalar	*Visual NONE	NONE	NONE	NONE
Debris scalar	*Visual NONE	NONE	NONE	▲ MODER
Sand/Dirt scalar	*Visual NONE	NONE	NONE	NONE
Appearance scalar	*Visual NORML	NORML	NORML	NORML
Odor scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water scalar	*Visual >0.1	NEG	NEG	NEG
Free Water scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445 67.4	66.0	66.5	66.2

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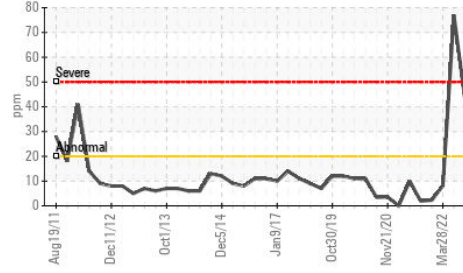
▲ Ferrous Alloys



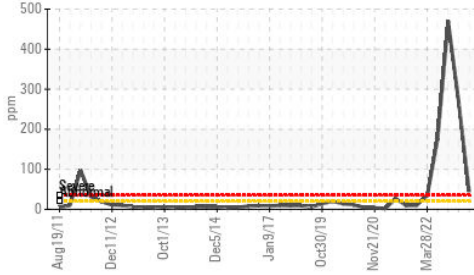
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

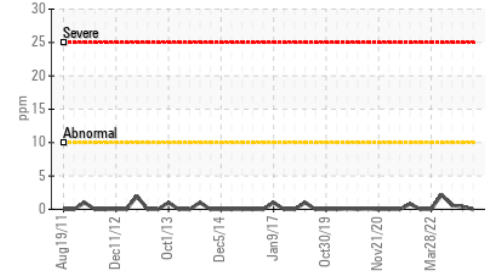
▲ Silicon (ppm)



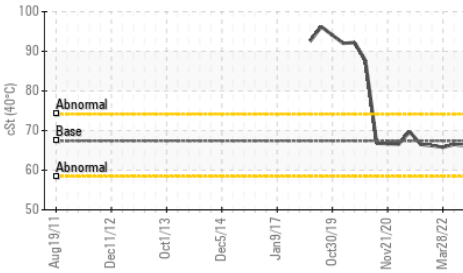
▲ Iron (ppm)



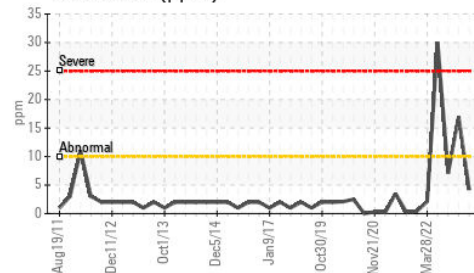
▲ Lead (ppm)



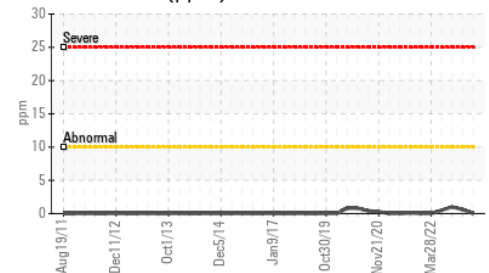
Viscosity @ 40°C



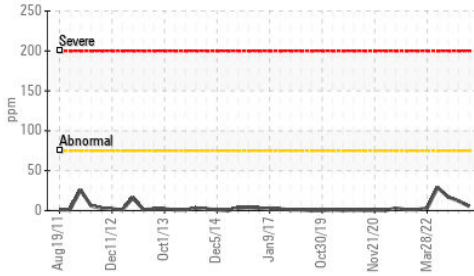
Aluminum (ppm)



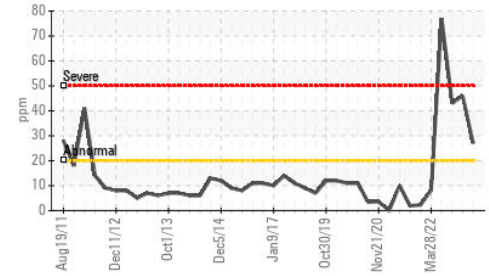
Chromium (ppm)



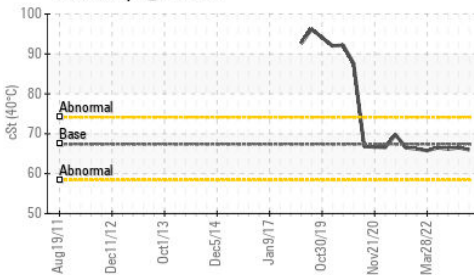
Copper (ppm)



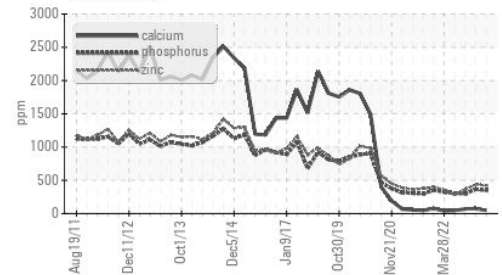
▲ Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0084059 **Received** : 25 Aug 2023
Lab Number : 05935803 **Diagnosed** : 28 Aug 2023
Unique Number : 10621074 **Diagnostician** : Don Baldrige
Test Package : MOB 1

Kemp Quarries - Pryor Stone - Pryor
 1050 E 520 Rd
 Pryor, OK
 US 74361
 Contact:
 pryor@pryorstone.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)

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F: