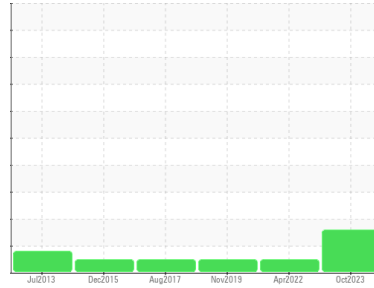


Area
KEMP QUARRIES / KEMP STONE - FAIRLAND
 Machine Id
CRN014
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX AW 68 (--- GAL)



DIAGNOSIS

Recommendation
 The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 changed filters)

Wear
 All component wear rates are normal.

Contamination
 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	history1	history2
Sample Number	Client Info	PCA0087053	PCA0034286	PCA36409024
Sample Date	Client Info	31 Oct 2023	13 Apr 2022	18 Nov 2019
Machine Age	hrs	1374	1150	324
Oil Age	hrs	1374	1150	0
Oil Changed	Client Info	N/A	Changed	N/A
Sample Status		ABNORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	4	2	2
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	<1	0
Aluminum	ppm	ASTM D5185m >10	0	<1	1
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >75	<1	<1	0
Tin	ppm	ASTM D5185m >10	0	0	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	4	69
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	<1	3	23
Manganese	ppm	ASTM D5185m 0	0	0	0
Magnesium	ppm	ASTM D5185m 0	14	36	546
Calcium	ppm	ASTM D5185m 50	83	159	1370
Phosphorus	ppm	ASTM D5185m 330	353	353	711
Zinc	ppm	ASTM D5185m 430	451	403	690
Sulfur	ppm	ASTM D5185m 760	923	766	---

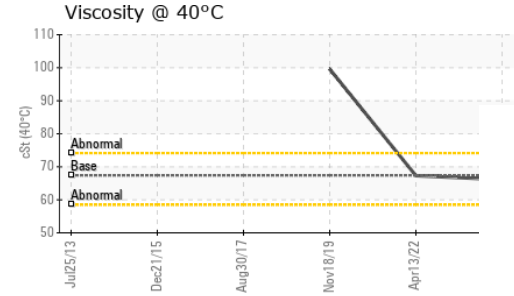
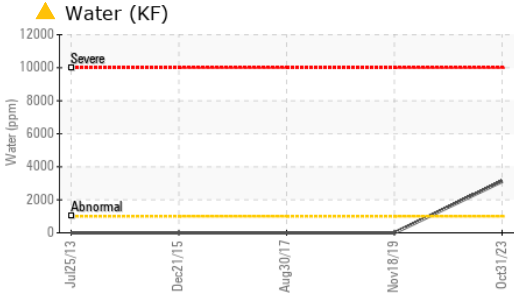
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >20	<1	<1	8
Sodium	ppm	ASTM D5185m	<1	<1	2
Potassium	ppm	ASTM D5185m >20	0	0	2
Water	%	ASTM D6304 >0.1	▲ 0.312	---	0
ppm Water	ppm	ASTM D6304 >1000	▲ 3120	---	---

VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	NONE	---
Debris	scalar	*Visual NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
Appearance	scalar	*Visual NORML	NORML	NORML	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual >0.1	0.2%	NEG	---
Free Water	scalar	*Visual	NEG	NEG	---

OIL ANALYSIS REPORT

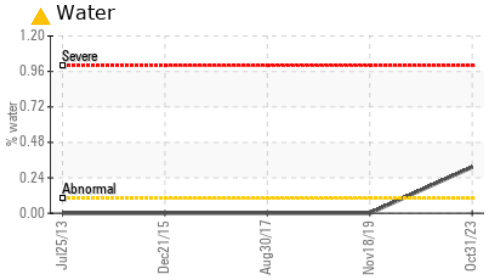
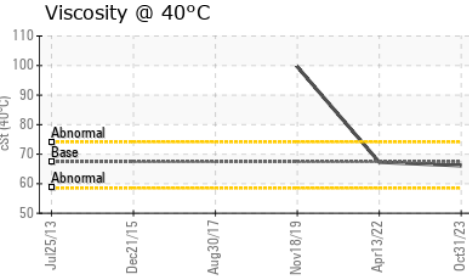
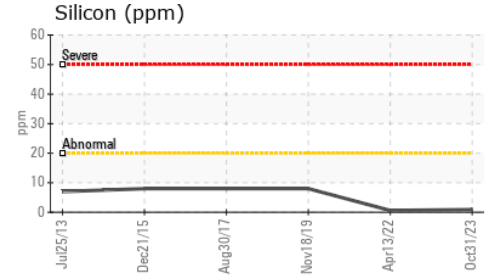
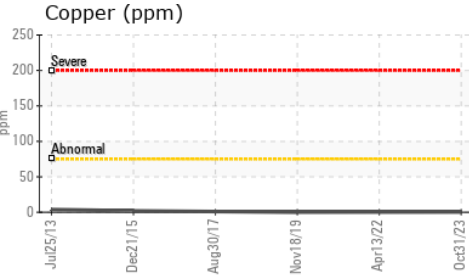
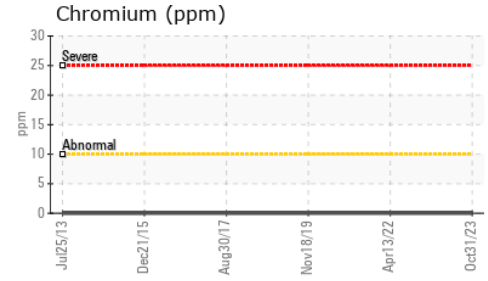
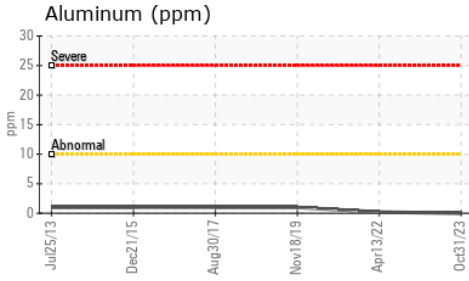
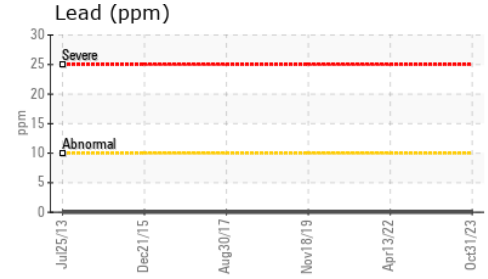
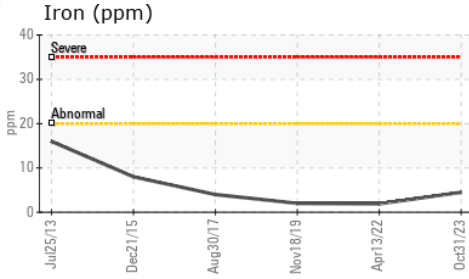


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.4	66.1	67.3	99.6

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0087053 **Received** : 13 Nov 2023
Lab Number : 06006620 **Diagnosed** : 15 Nov 2023
Unique Number : 10740382 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: KF)

Kemp Quarries - Kemp Stone - Fairland
 18350 S 590 Rd
 Fairland, OK
 US 74343
 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)

fairland@kempstone.com

T:

F: