

OIL ANALYSIS REPORT

Sample Rating Trend

WATER



history1



KEMP QUARRIES / RIVER VALLEY BACKBONE **WL135**

Component **Hydraulic System**

PETRO CANADA HYDREX AW 68 (--- GAL)

SAMPLE INFORMATION method

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

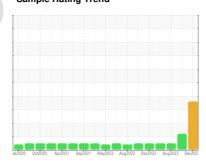
All component wear rates are normal.

Contamination

There is a light concentration of water present in the oil.

▲ Fluid Condition

The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil.



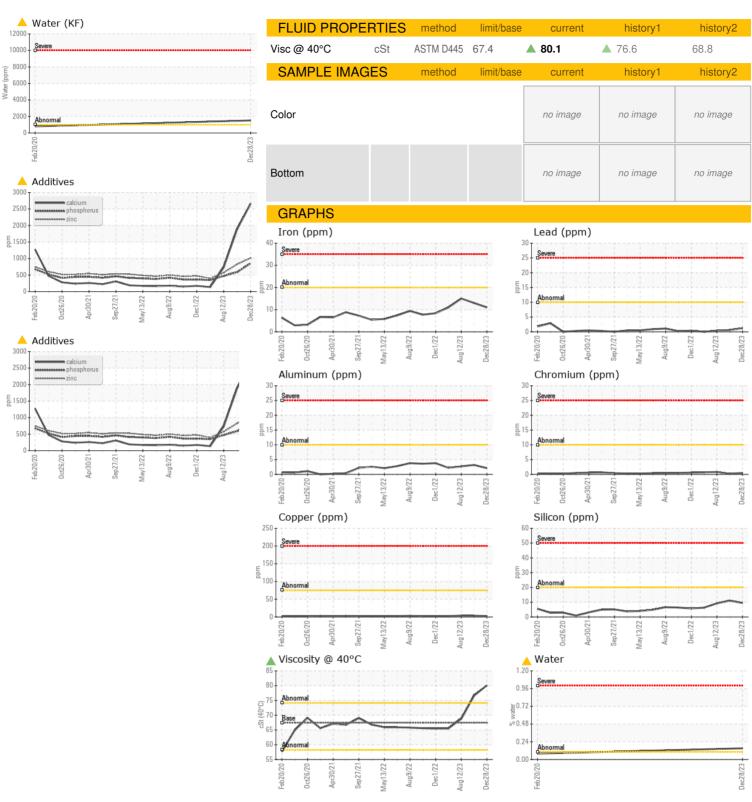
current

limit/base

Sample Number		Client Info		PCA0069892	PCA0084852	PCA0084833
Sample Date		Client Info		28 Dec 2023	25 Oct 2023	12 Aug 2023
Machine Age	hrs	Client Info		52934	52934	52602
Oil Age	hrs	Client Info		900	900	300
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	11	13	15
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	3	3
Lead	ppm	ASTM D5185m	>10	1	<1	<1
Copper	ppm	ASTM D5185m	>75	3	3	4
Tin	ppm	ASTM D5185m	>10	1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	<1	<1
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	0	15	14	20
Calcium	ppm	ASTM D5185m	50	2660	▲ 1894	732
Phosphorus	ppm	ASTM D5185m	330	859	592	473
Zinc	ppm	ASTM D5185m	430	1017	828	572
Sulfur	ppm	ASTM D5185m	760	4031	2400	1688
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	11	9
Sodium	ppm	ASTM D5185m		0	2	2
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water	%	ASTM D6304	>0.1	△ 0.152		
ppm Water	ppm	ASTM D6304	>1000	1520		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	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	NONE
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	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



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Laboratory Sample No. Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: 10820395 Test Package : MOB 1 (Additional Tests: KF)

: PCA0069892 : 06054446

Recieved : 08 Jan 2024 : 10 Jan 2024 Diagnosed : Jonathan Hester Diagnostician

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.

Kemp Quarries - River Valley - Backbone

5600 S Hwy 253 Huntington, AR US 72940

Contact:

backbone@rivervalleyquarries.com

T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)