

## **OIL ANALYSIS REPORT**

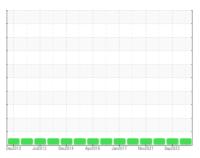
#### Sample Rating Trend

## NORMAL

# KEMP QUARRIES / MUSKOGEE SAND [67431] WL001

Component **Hydraulic System** 

PETRO CANADA HYDREX AW 68 (--- GAL)





### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: PM-2 changed filters)

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the component.

#### **Fluid Condition**

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086546	PCA0037713	PCA0070487
Sample Date		Client Info		29 Feb 2024	06 Sep 2023	08 Jul 2022
Machine Age	hrs	Client Info		3895	3441	2975
Oil Age	hrs	Client Info		3895	3441	613
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Matau		MO Mada a	0.1	NEO	NEC	NICO

OCIVI7 (IVIII V/ )	11014					
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	3	2
Chromium	ppm	ASTM D5185m	>10	8	7	3
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	1	1	2
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2

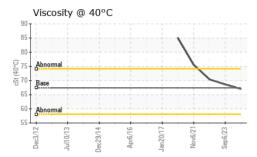
ADDITIVES		method			riistory i	History2
Boron	ppm	ASTM D5185m	0	5	13	28
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	4	8	13
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	0	26	119	145
Calcium	ppm	ASTM D5185m	50	197	400	520
Phosphorus	ppm	ASTM D5185m	330	315	471	456
Zinc	ppm	ASTM D5185m	430	371	578	531
Sulfur	ppm	ASTM D5185m	760	882	1599	1395

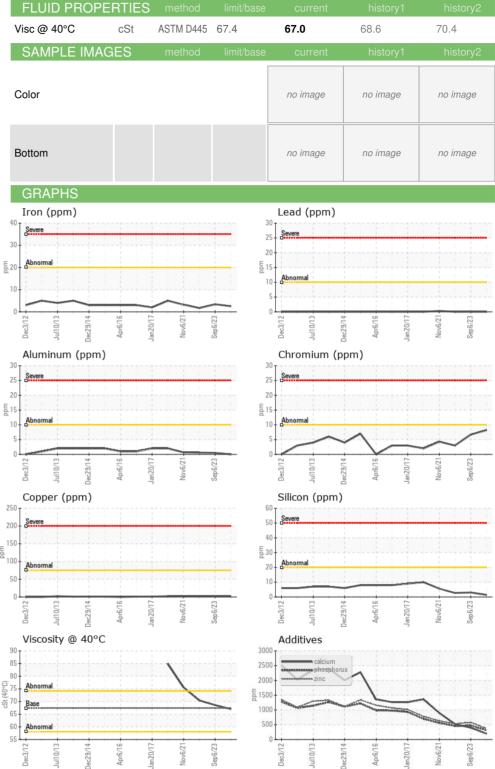
CONTAMINANTS		method				history2
Silicon	ppm	ASTM D5185m	>20	1	3	3
Sodium	ppm	ASTM D5185m		1	1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0

	Potassium	ppm	AS IM D5 185M	>20	U	Ü	0
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
1 19	Free Water	scalar	*Visual		NEG	NEG	Subjected By:



## **OIL ANALYSIS REPORT**







Laboratory Sample No.

Lab Number : 06115532 Unique Number : 10924365 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0086546 Received : 11 Mar 2024 : 13 Mar 2024 **Tested** 

Diagnosed

: 13 Mar 2024 - Don Baldridge

Kemp Quarries - Muskogee Sand 3395 W 50th St N

Porter, OK US 74454

Contact: muskogee@muskogeesand.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)

Report Id: KEMPOR [WUSCAR] 06115532 (Generated: 03/13/2024 19:48:57) Rev: 1

Submitted By:

T:

F: