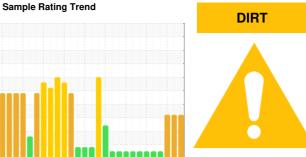


OIL ANALYSIS REPORT





KEMP QUARRIES / MUSKOGEE SAND [68772] **WL039**

Component **Hydraulic System**

PETRO CANADA HYDREX AW 68 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. (Customer Sample Comment: PM-3 sampled fluid)

Wear

The chromium level is abnormal. All other component wear rates are normal.

Contamination

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

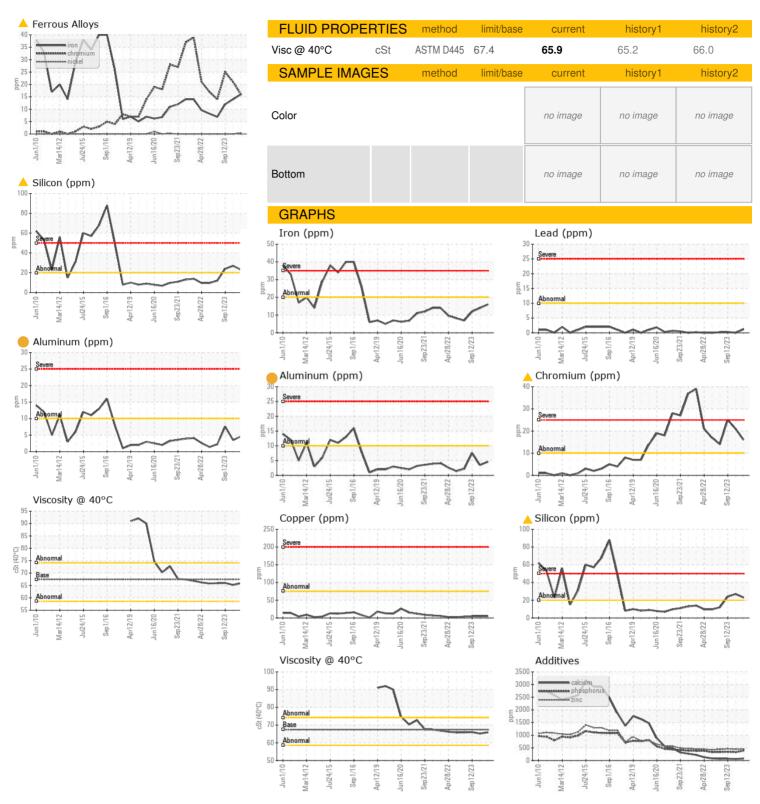
Fluid Condition

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

REX AW 68 (GAL)	in 2010 Mar201	2 Jul2015 Sep2016 Apri	2019 Jun2020 Sep2021 Apr2022	Sep 2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108984	PCA0070660	PCA0086425
Sample Date		Client Info		13 Mar 2024	05 Dec 2023	12 Sep 2023
Machine Age	hrs	Client Info		60751	60261	59740
Oil Age	hrs	Client Info		60751	60261	59740
Dil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Vater		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	16	14	12
Chromium	ppm	ASTM D5185m	>10	<u> </u>	<u>^</u> 21	<u>^</u> 25
lickel	ppm	ASTM D5185m	>10	<1	0	0
itanium	ppm	ASTM D5185m		<1	0	<1
ilver	ppm	ASTM D5185m		0	0	0
Juminum	ppm	ASTM D5185m	>10	<u> </u>	4	8
ead	ppm	ASTM D5185m	>10	1	0	<1
Sopper	ppm	ASTM D5185m		5	5	5
• •				1		
in 	ppm	ASTM D5185m	>10		0	<1
anadium	ppm	ASTM D5185m		<1	0	0
admium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
oron	ppm	ASTM D5185m	0	<1	0	0
arium	ppm	ASTM D5185m	0	1	0	0
lolybdenum	ppm	ASTM D5185m	0	1	0	<1
langanese	ppm	ASTM D5185m	0	<1	0	0
lagnesium	ppm	ASTM D5185m	0	6	3	4
alcium	ppm	ASTM D5185m	50	79	62	72
hosphorus	ppm	ASTM D5185m	330	390	327	343
inc	ppm	ASTM D5185m	430	455	442	462
ulfur	ppm	ASTM D5185m	760	1083	979	980
CONTAMINAN	NTS	method	limit/base	current	history1	history2
ilicon	ppm	ASTM D5185m	>20	△ 23	<u>^</u> 27	<u>^</u> 24
odium	ppm	ASTM D5185m		0	0	0
otassium	ppm	ASTM D5185m	>20	4	3	2
VISUAL		method	limit/base	current	history1	history2
/hite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
recipitate	scalar	*Visual	NONE	NONE	NONE	NONE
ilt	scalar	*Visual	NONE	NONE	NONE	NONE
ebris	scalar	*Visual	NONE	NONE	NONE	NONE
and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
						NORML
ppearance	scalar	*Visual	NORML	NORML	NORML	
dor	scalar	*Visual	NORML	NORML	NORML	NORML
mulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
ree Water	scalar	*Visual		NEG	NEG	NEG



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

: PCA0108984 Lab Number : 06128305 Unique Number: 10942456 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Mar 2024 : 26 Mar 2024 **Tested**

Diagnosed

: 28 Mar 2024 - Jonathan Hester

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)

T:

F: