

OIL ANALYSIS REPORT

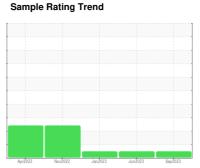


KEMP QUARRIES / BCS - GRAVETTE [66134] WL143

Component

Hydraulic System

PETRO CANADA HYDREX AW 68 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Pm4)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

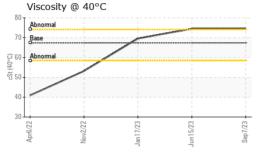
Fluid Condition

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

REX AW 68 (GAL)	Apr2022	Nov2022	Jan2023 Jun2023	Sep 2023		
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0084773	PCA0086362	PCA0062020	
Sample Date		Client Info		07 Sep 2023	15 Jun 2023	17 Jan 2023	
Machine Age	hrs	Client Info		39571	39015	38511	
Oil Age	hrs	Client Info		38110	39015	38511	
Oil Changed		Client Info		Changed	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METAL	_S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	6	4	4	
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>10	<1	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	<1	
Aluminum	ppm	ASTM D5185m	>10	2	1	0	
Lead	ppm	ASTM D5185m	>10	0	0	<1	
Copper	ppm	ASTM D5185m	>75	4	<1	1	
Tin	ppm	ASTM D5185m		<1	<1	<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	4	<1	2	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	1	3	2	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	0	40	38	40	
Calcium	ppm	ASTM D5185m	50	1881	1828	1813	
Phosphorus	ppm	ASTM D5185m	330	804	789	736	
Zinc	ppm	ASTM D5185m	430	992	994	952	
Sulfur	ppm	ASTM D5185m	760	3653	3670	3259	
CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	9	10	12	
Sodium	ppm	ASTM D5185m		2	<1	1	
Potassium	ppm	ASTM D5185m	>20	<1	1	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	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	NEG	
FLUID PROPE	ERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	67.4	74.5	74.5	69.6	



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de											
	GRAPH										
40	Iron (ppm	1)				Lead (p	pm)				
35	Severe					Severe					
30 25	1					20					
돌 20 15	Abnormal	***************************************		 	Ed d	Ab					
10					1	5 +					
5 · 0 ·	-					0					
	Apr6/22	Nov2/22	Jan 17/23	Jun15/23	Sep7/23	Apr6/22	Nov2/22	Jan 17/23	Jun15/23	Sep7/23	
	Aluminum	_	Jai	np np	co.		≥ um (ppm)	Jai	η̈́	Ø	
30	T 7	(ppiii)				30 T	ант (ррит)				
25	Severe					Severe					
20 · E 15 ·	1				Ed	20					
10-	Alexander					Abnormal					
5						5-					
0		22	- 53	- 53		0 22		- 53	- 53	- 53	
	Apr6/22	Nov2/22	Jan 17/23	Jun15/23	Sep7/23	Apr6/22	Nov2/22	Jan 17/23	Jun15/23	Sep7/23	
	Copper (ppm)					Silicon (ppm)					
250	Severe					Severe			:		
200						10					
150 E	1				m dd	80					
100	Abnormal					Abnormal					
50					1	10-				_	
0	Apr6/22	Nov2/22	Jan17/23 -	Jun15/23 +-	Sep7/23	Apr6/22 +	Nov2/22 -	Jan17/23 +	Jun15/23 -	Sep7/23 +	
			Jan1	Jun1	Sep			Jan1	Jun1	Sep	
80-	Viscosity	@ 40°C			Additives						
70	Abnormal Base			_	180		calcium ohosphorus			-	
Ç 60	T				160	00+	tinc				
cSt (40°C)					틆 120 100		/				
40					80	00-	1	Name of the Owner of the Party	10000000000000000000000000000000000000		
30					- 40	₁₀ L;	J				
	Apr6/22	Nov2/22	Jan 17/23	Jun15/23	Sep7/23	Apr6/22	Nov2/22	Jan 17/23	Jun15/23	Sep7/23	
	⋖	Z	Jai	ΞŢ	c/s	⋖	2	Jai	Π̈́	Ö	



Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10648318 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05952359

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: PCA0084773

Received Diagnosed

: 14 Sep 2023 : 19 Sep 2023 Diagnostician : Sean Felton

Kemp Quarries - Benton County Stone - Gravette

15100 N Hwy 59 Sulphur Springs, AR US 72768

Contact:

T:

F:

gravette@bentoncountystone.com

* - 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: KEMSUL [WUSCAR] 05952359 (Generated: 09/20/2023 06:35:50) Rev: 1