

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

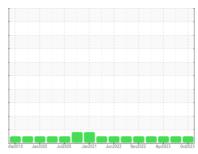


KEMP QUARRIES / KEMP STONE - FAIRLAND [66473]
Machine Id
WL 128

Component

Hydraulic System

PETRO CANADA HYDREX AW 68 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-3 changed filters)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

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

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0084753	PCA0084607	PCA008599	
Sample Date		Client Info		06 Oct 2023	10 Jul 2023	20 Apr 2023	
Machine Age	hrs	Client Info		34458	33887	33426	
Oil Age	hrs	Client Info		34458	33887	33426	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METAI	_S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	6	6	4	
Chromium	ppm	ASTM D5185m	>10	3	1	<1	
Nickel	ppm	ASTM D5185m	>10	0	<1	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	<1	0	
Aluminum	ppm	ASTM D5185m	>10	1	2	1	
Lead	ppm	ASTM D5185m	>10	0	<1	0	
Copper	ppm	ASTM D5185m	>75	1	<1	<1	
Tin	ppm	ASTM D5185m	>10	0	<1	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	0	
Barium	ppm	ASTM D5185m	0	0	<1	0	
Molybdenum	ppm	ASTM D5185m	0	1	<1	<1	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	0	8	11	6	
Calcium	ppm	ASTM D5185m	50	104	121	108	
Phosphorus	ppm	ASTM D5185m	330	272	414	374	
Zinc	ppm	ASTM D5185m	430	471	541	484	
Sulfur	ppm	ASTM D5185m	760	954	1263	1194	
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	6	6	4	
Sodium	ppm	ASTM D5185m		0	<1	<1	
Potassium	ppm	ASTM D5185m	>20	2	5	<1	
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

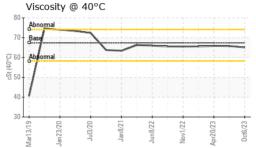
65.1

65.8

65.9



OIL ANALYSIS REPORT



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

	GRA	\PH	S																
40 -	Iron (ppm)									Lead (ppm) 30 25 Severe 20 15 10 Abnormal									
35 -	Severe									Severe									
30 - 25 -	111								20-										
를 20 -	Abnorm	al	-/	-					E 15										
15 - 10 -	1				/	-	\			Abnom	nal								
5 - 0									0		-	_							
	Mar13/19	Jan 23/20	Jul3/20	Jan8/21	Jun8/22	Nov1/22	Apr20/23	Oct6/23	Mar13/19		Jan23/20	Jul3/20	Jan8/21	Jun8/22	Nov1/22	Apr20/23	Oct6/23		
		-			ゔ	Ž	Ap	0						Ť	Z	Ap	0		
³⁰ T	Aluminum (ppm)								30	0									
25 -	Severe					*******			20	Severe									
20 - E 15 -									20 + E 15 -										
10-	Abnorm	al			-					Abnom	nal								
5 -									5-										
0	- 6IV	/20 -	Jul3/20 -	12/	722	122	73	13	0 L		- 02/	Jul3/20 -	12/	752	722	73	-23		
	Mar13/19	Jan23/20	Jul3	Jan8/21	Jun8/22	Nov1/22	Apr20/23	0ct6/23	Mar13/19		Jan23/20	Jul3	Jan8/21	Jun8/22	Nov1/22	Apr20/23	0ct6/23		
250 -	Copp	er (p	pm)						S 60 T	ilico	n (pp	om)							
200 -	Severe								1	Severe									
150 -									40										
E 100+									E 30	Abnom	nal								
50-	Abnorm	al							20 - 6	Diloii	Trui								
0									0 1	_						<u> </u>			
	Mar13/19	Jan23/20	Jul3/20	Jan8/21	Jun8/22	Nov1/22	Apr20/23	Oct6/23	Mar13/19		Jan23/20	Jul3/20	Jan8/21	Jun8/22	Nov1/22	Apr20/23	Oct6/23		
		-	a 40°		7	2	A				ج tives		,	7	2	Aţ			
80 T	Abnorm				1-1	1-7-	1111		1600		calci	lum							
70 -	Base		1					-	1200		pho zinc	sphorus							
cSt (40°C)	Abhorm	al							1000 - 1 E 800 -	X.	Second Second	IZ							
₹ 50 -	1								600 -	1		11	-		-		-		
40 -	<i>!</i>								200 -					1	**********	SEASTANDED NO.	-		
30	8/18	3/20	Jul3/20	Jan8/21-	1/22	722	1/23	0ct6/23	کا _و		- 02/8	Jul3/20 -	8/21-	1/22	722 -	1/23 -	0ct6/23		
	Mar13/19	Jan23/20	Jul	Jant	Jun8/22	Nov1/22	Apr20/23	Oct6	Mar13/19		Jan23/20	Jul3	Jan8/21	Jun8/22	Nov1/22	Apr20/23	Oct6		





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10698086 Test Package : MOB 1

: PCA0084753 : 05980791

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Oct 2023 Diagnosed

: 18 Oct 2023 Diagnostician : Angela Borella Kemp Quarries - Kemp Stone - Fairland

18350 S 590 Rd Fairland, OK US 74343

Contact:

fairland@kempstone.com

T:

F:

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)