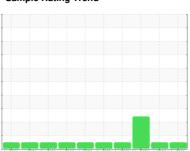


OIL ANALYSIS REPORT

Sample Rating Trend







KEMP QUARRIES / PRYOR STONE [66579] Machine Id WL137

Component **Hydraulic System**

PETRO CANADA HYDREX AW 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Pm1 performed. All oil samples taken. Engine oil, and all filters changed.)

Wear

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 (0		Apr2020 Jul2	021 Nov2021 Apr2022 Jul2	122 Oct2022 Feb2023 May2023 Jul2	023 Oct2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086227	PCA0084228	PCA0083974
Sample Date		Client Info		06 Oct 2023	28 Jul 2023	18 May 2023
Machine Age	hrs	Client Info		32269	31785	31319
Oil Age	hrs	Client Info		484	2146	1680
Oil Changed		Client Info		Oil Added	Changed	Oil Added
Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>26	4	6	3
Chromium	ppm	ASTM D5185m	>5	3	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>11	1	5	2
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>31	<1	1	5
Tin	ppm	ASTM D5185m	>10	0	0	<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	0	0	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	4
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	0	2	<1	▲ 38
Calcium	ppm	ASTM D5185m	50	64	72	▲ 3168
Phosphorus	ppm	ASTM D5185m	330	301	376	△ 961
Zinc	ppm	ASTM D5185m	430	462	478	<u>▲</u> 1178
Sulfur	ppm	ASTM D5185m	760	857	1096	△ 4476
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>21	4	6	6
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	1	<1	2
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	RTIES	method	limit/base	current	history1	history2

Visc @ 40°C

cSt

ASTM D445 67.4

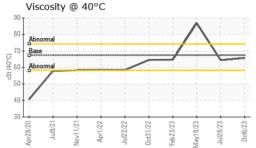
65.7

64.4

<u>▲</u> 86.8



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

000/2/																			
	GRAPH: Iron (ppm									Loa	d (p	nm)							
60 50	Severe	,					1		30 ·	Seve		P111)							
40 -									20	-									
된 30 - 20 -	Abnormal								튭 15- 10-	Abne	ormal							<u>.</u>	
10-				_					5	1									
01	Jul9/21	Apr1/22 -	Jul22/22 -	Oct31/22 -	Feb23/23 -	May18/23 -	Jul28/23 -	Oct6/23	0	Apr28/20	Jul9/21	Nov11/21-	Apr1/22	Jul22/22	0ct31/22	Feb23/23	May18/23 -	Jul28/23	Oct6/23
	Aluminum			ŏ	-E	Ma	ř					≝ um (ŏ	æ	Ma	Ť	
25 -	Severe								10-	Seve	re								
15 - udd									mdd	Abno	ormal								
10	Abnormal								4	-									
5 0			_	_		_	$^{\wedge}$	\	0		_				_			_/	
	Apr28/20 Jul9/21	Apr1/22	Jul22/22	Oct31/22	Feb23/23	May18/23	Jul28/23	0ct6/23		Apr28/20	Jul9/21	Nov11/21	Apr1/22	Jul22/22	Oct31/22	Feb23/23	May18/23	Jul28/23	Oct6/23
70 1	Copper (p	pm)							35	Silid	con (ppm)						
60 - 50 -	Severe								30 ·	Seve									
#40 - md 30 -	Abnormal								핊 20	Abne	ormal								
20-							1		10-										
10									5									-	
	-	2	2	2 -		3+	3		0		_	+	2+	2+-}	2	3	3	3	3+
	Apr28/20	Apr1/22	Jul22/22	Oct31/22	Feb23/23	May18/23 -	Jui28/23	0ct6/23	0	Apr28/20	Jul9/21	Nov11/21	Apr1/22 -	Jui22/22	Oct31/22 -	Feb23/23 -	May18/23	Jul28/23	Oct6/23 1
90 T	Viscosity (-		0ct31/22	Feb23/23	May18/23 -	Jul28/23	0ct6/23	3500		litive		Apr1/22 -	Jul22/22	0ct31/22	Feb23/23 -	May18/23	Jul28/23	0ct6/23
80 -	Viscosity (-		0ct31/22	Feb23/23	May18/23-	Jul28/23	0ct6/23			ditive		1	Jul22/22	0ct31/22	Feb23/23	May18/23	Jul28/23	0ct6/23
80 -	Viscosity (-		0ct31/22	Feb23/23	May18/23 -	Jul28/23	0ct6/23	3500 · 3000 · 2500 ·	Add	ditive	S calcium phospho	1	Jui22/22	0ct31/22	Feb23/23 +	May18/23	Jul28/23	0ct6/23
80 - 70 - (0-04) 80 - 50 -	Viscosity (Abnormal Base	-		0ct31/22	Feb23/23	May18/23 -	Jul28/23	0ct6/23	3500 · 3000 · 2500 · 20	Add	ditive	S calcium phospho	1	Jul22/22 +	0ct31/22	Feb23/23	May 18/23	Jul28/23	Oct6/23
%; (40°C) - 09 - 09	Viscosity (Abnormal Base	a 40°C		Oct31/22 Oct31/22	Feb23/23 Feb23/23	May18/23 - May18/23 -	Jui28/23 Jui28/23	Oct6/23 Oct6/23	3500 - 3000 - 2500 - 2000 - E 1500 - E	Add	ditive	S calcium phospho	1	Jui22/22 Jui22/22	0ct31/22	Feb23/23 Feb23/23	May18/23 May18/23	Jui28/23	Oct6/23 CC



Laboratory Sample No. Lab Number Unique Number : 10698085

: 05980790

: PCA0086227 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Oct 2023 Diagnosed : 18 Oct 2023

Diagnostician : Angela Borella

Kemp Quarries - Pryor Stone - Pryor 1050 E 520 Rd Pryor, OK US 74361 Contact:

pryor@pryorstone.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)