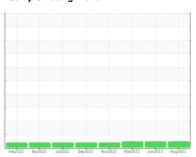


OIL ANALYSIS REPORT

Sample Rating Trend







[65334] Machine Id WL149

Component **Hydraulic System**

PETRO CANADA HYDREX AW 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Pm3 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.

.)	Feb:2022 App:2022 Sep:2022 New 2022 Mexico 22 Mexico 23 Juni 2023 App:2023									
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		PCA0084207	PCA0084007	PCA0086194				
Sample Date		Client Info		01 Aug 2023	01 Jun 2023	02 Mar 2023				
Machine Age	hrs	Client Info		8481	8070	7494				
Oil Age	hrs	Client Info		1597	1186	610				
Oil Changed	CI			Oil Added	Oil Added	Oil Added				
Sample Status				NORMAL	NORMAL	NORMAL				
WEAR METAL	.S	method	limit/base	current	history1	history2				
Iron	ppm	ASTM D5185m	>20	3	3	2				
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1				
Nickel	ppm	ASTM D5185m	>10	0	0	0				
Titanium	ppm	ASTM D5185m		0	0	0				
Silver	ppm	ASTM D5185m		0	0	0				
Aluminum	ppm	ASTM D5185m	>10	4	<1	1				
Lead	ppm	ASTM D5185m	>10	0	<1	0				
Copper	ppm	ASTM D5185m	>75	2	2	2				
Tin	ppm	ASTM D5185m	>10	0	0	0				
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	0				
Barium	ppm	ASTM D5185m	0	0	2	0				
Molybdenum	ppm	ASTM D5185m	0	0	0	0				
Manganese	ppm	ASTM D5185m	0	<1	0	<1				
Magnesium	ppm	ASTM D5185m	0	0	<1	1				
Calcium	ppm	ASTM D5185m	50	62	64	65				
Phosphorus	ppm	ASTM D5185m	330	360	328	346				
Zinc	ppm	ASTM D5185m	430	460	430	443				
Sulfur	ppm	ASTM D5185m	760	1558	1377	1576				
CONTAMINAN	ITS	method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>20	4	4	2				
Sodium	ppm	ASTM D5185m		2	0	2				
Potassium	ppm	ASTM D5185m	>20	0	1	<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	LIGHT	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

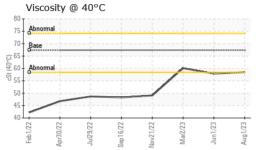
58.5

57.9

60.1



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

GRAPHS	3												
Iron (ppm						Le	ad (pp	om)					
Severe						30 - Se	vere						
						20 -							
Abnormal						10 - Ab	normal						
)						5							
	- 72/9		Mar2/23 -	Jun1/23 -	Aug1/23	- C- Leb 1/22	1/22	3/22	3/22	1/22	Mar2/23	Jun1/23 •	Aug1/23
4	Jul29/22	Nov21/22	Mar	Jun	Aug		Apr30/22	Jul29/22	Sep16/22	Nov21/22	Mar	Jun	Aug
Aluminum	(ppm)					30 T 7	romiu	m (ppr	n)				
Severe						23 7	vere				***************************************		
						20 - Ed 15 -							
Abnormal							normal						
\		_				5							
Feb 1/22 - Apr30/22 -	Jui29/22 - Sep16/22 -	Nov21/22-	Mar2/23 -	Jun1/23	Aug1/23	Feb1/22	Apr30/22	Jul29/22	Sep16/22 -	Nov21/22-	Mar2/23 •	Jun1/23	Aug1/23
Copper (p		N	2	7	⋖		⊲ icon (ا		S	N.	2	7	A
Severe						60 T	vere]]]]	
0						40 -							
						Ē 30 - ▲	normal						
Abnormal						20 - 4							
22	22	22		- 53	23	0 27	22	22	22				23
Feb 1/22 Apr3 0/22	Jul29/22 Sep16/22	Nov21/22	Mar2/23	Jun1/23	Aug1/23	Feb 1/22	Apr30/22	Jul29/22	Sep16/22	Nov21/22	Mar2/23	Jun1/23	Aug1/23
Viscosity @	40°C					Ac	lditive	S					
Abnormal						500 -		alcium hosphorus					
Base						400 -	······································	nc			MERCHANIA		AND THE OWNER.
- Abnormal				-		200-							
						100-							
Feb 1/22	9/22	1/22	2/23	Jun1/23	Aug1/23	O Feb1/22)/22	3/22	3/22	1/22	Mar2/23 -	Jun1/23	Aug1/23
Feb 1/22	Jul29/22 Sep16/22	Nov21/22	Mar2/23	Jun	Aug	Feb	Apr30/22	Jul29/22	Sep16/22	Nov21/22	Marí	Jun	Aug





Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10621068 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0084207 : 05935797

Diagnosed

Received : 25 Aug 2023 : 28 Aug 2023 Diagnostician : Don Baldridge 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)

Report Id: KEMPRY [WUSCAR] 05935797 (Generated: 08/28/2023 16:15:52) Rev: 1