

OIL ANALYSIS REPORT

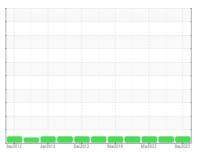
Sample Rating Trend

NORMAL

KEMP QUARRIES / MUSKOGEE SAND [65023] **TTH015**

Component **Hydraulic System**

PETRO CANADA HYDREX AW 68 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-2 changed filters)

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.

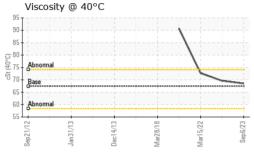
)		Sep2012	Jan2013 Dec2013	Mar2018 Mar2022	Sep 2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0037707	PCA0062259	PCA0034596
Sample Date		Client Info		06 Sep 2023	14 Oct 2022	15 Mar 2022
Machine Age	hrs	Client Info		18526	17730	17595
Oil Age	hrs	Client Info		18526	135	2000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	2	5
Chromium	ppm	ASTM D5185m	>10	<1	<1	2
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	2	1	1
Tin	ppm	ASTM D5185m	>10	<1	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	13	42
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	4	11	16
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	0	83	166	315
Calcium	ppm	ASTM D5185m	50	170	383	837
Phosphorus	ppm	ASTM D5185m	330	439	439	591
Zinc	ppm	ASTM D5185m	430	553	555	654
Sulfur	ppm	ASTM D5185m	760	1355	1364	1717
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	4
Sodium	ppm	ASTM D5185m		2	<1	3
Potassium	ppm	ASTM D5185m	>20	0	0	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	VLITE	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
\"	0.	4 OTM D 4 15	07.4		00.0	70.7

cSt

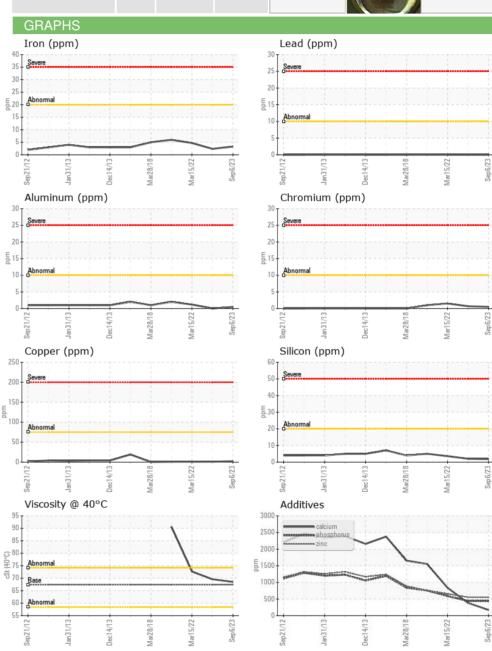
69.6



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Certificate L2367

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

: PCA0037707 : 05952361

: 10648320

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Sep 2023 : 19 Sep 2023 Diagnosed Diagnostician : Sean Felton

Kemp Quarries - Muskogee Sand

3395 W 50th St N Porter, OK US 74454

Contact:

T:

F:

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)

Report Id: KEMPOR [WUSCAR] 05952361 (Generated: 09/20/2023 06:36:39) Rev: 1