

OIL ANALYSIS REPORT



KEMP QUARRIES / BCS - STILLWELL WL068

Component **Front Differential**

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)





DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: PM-3 sampled fluid)

Wear

Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0086437	PCA0086169	PCA006217
Sample Date		Client Info		05 Jul 2023	08 Apr 2023	24 Jun 2022
Machine Age	hrs	Client Info		23571	23003	22557
Oil Age	hrs	Client Info		23571	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR META	LS	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>500	1456	<u></u> 516	▲ 729
Chromium	ppm	ASTM D5185m	>3	3	1	1
Nickel	ppm	ASTM D5185m	>3	<1	0	0
itanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	8	3	4
.ead	ppm	ASTM D5185m	>13	0	0	<1
Copper	ppm	ASTM D5185m	>103	15	6	5
in	ppm	ASTM D5185m	>5	0	0	0
Antimony	ppm	ASTM D5185m	>5			
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	8	4	7
Barium	ppm	ASTM D5185m	0	0	0	0
Nolybdenum	ppm	ASTM D5185m	0	2	2	1
Manganese	ppm	ASTM D5185m	0	12	4	5
/lagnesium	ppm	ASTM D5185m	9	38	28	21
Calcium	ppm	ASTM D5185m	3114	3014	2511	2933
Phosphorus	ppm	ASTM D5185m	1099	1085	1033	1058
Zinc	ppm	ASTM D5185m	1245	1273	1179	1272
Sulfur	ppm	ASTM D5185m	7086	8411	7440	6850
CONTAMINA	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>100	38	15	21
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	2	0	2
VISUAL		method	limit/base	current	history 1	history 2
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	MODER
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	MODER	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
mulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Trac Motor		43.77		NEC	NEC	NEC

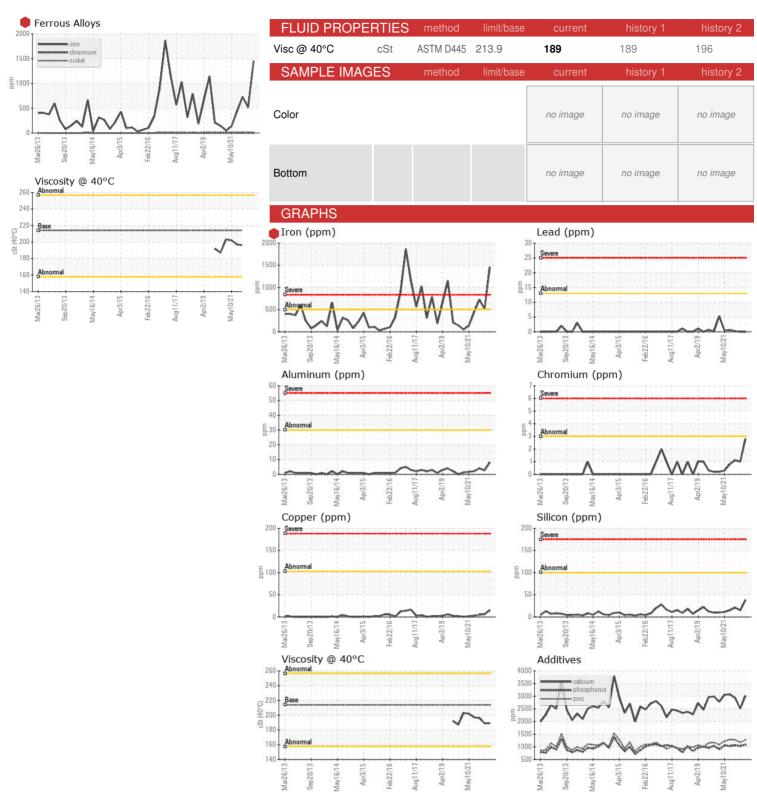
NEG

Free Water

scalar *Visual



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: PCA0086437 : 05894684 : 10550494 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jul 2023 : 12 Jul 2023 Diagnosed

: Sean Felton Diagnostician

Kemp Quarries - Benton County Stone - Stillwell 463917 Highway 100

Bunch, OK US 74931

Contact: stilwell@bentoncountystone.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: