

OIL ANALYSIS REPORT



KEMP QUARRIES / BCS - STILLWELL WL068

Component **Front Left Final Drive**

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

The iron level is severe. 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.

RO 10-4 SAE 50 (GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0086432	PCA0086122	PCA006217
Sample Date		Client Info		05 Jul 2023	04 Mar 2023	24 Jun 2022
Machine Age	hrs	Client Info		23571	0	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 METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>800	1506	<u> </u>	<u></u> 718
Chromium	ppm	ASTM D5185m	>10	3	2	1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>15	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	8	5	4
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	15	16	5
Tin	ppm	ASTM D5185m	>8	0	0	0
Antimony	ppm	ASTM D5185m	>50			
Vanadium	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	15	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	3	1
Manganese	ppm	ASTM D5185m	0	12	8	5
Magnesium	ppm	ASTM D5185m	9	40	47	20
Calcium	ppm	ASTM D5185m	3114	3040	2439	2915
Phosphorus	ppm	ASTM D5185m	1099	1083	997	1045
Zinc	ppm	ASTM D5185m	1245	1264	1121	1251
Sulfur	ppm	ASTM D5185m	7086	8348	7954	6488
CONTAMINAN	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>400	39	17	20
Sodium	ppm	ASTM D5185m		2	1	0
Potassium	ppm	ASTM D5185m	>20	3	0	2
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	scalar	*Visual	NONE	NONE	NONE	NONE
		*Visual	NONE	NONE	NONE	NONE
Silt	scalar					
Silt Debris	scalar scalar	*Visual	NONE	NONE	NONE	NONE
Silt Debris				NONE NONE	NONE NONE	NONE NONE
Silt Debris Sand/Dirt	scalar	*Visual	NONE			
Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar	*Visual *Visual	NONE NONE	NONE	NONE	NONE
Silt Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual	NONE NONE NORML	NONE NORML	NONE NORML	NONE NORML



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Certificate L2367

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

: PCA0086432 : 05894705

: 10550515 Test Package : MOB 1

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

: Sean Felton

Diagnostician

* - 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)

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

stilwell@bentoncountystone.com

Kemp Quarries - Benton County Stone - Stillwell

T: F:

463917 Highway 100

Report Id: KEMBUN [WUSCAR] 05894705 (Generated: 07/12/2023 12:18:54) Rev: 1

Bunch, OK

US 74931

Contact: