

# **OIL ANALYSIS REPORT**

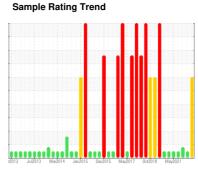


# KEMP QUARRIES / BCS - STILLWELL **WL068**

Component

**Rear 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

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.

JRO TO-4 SAE 50 ( GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0086434	PCA0086121	PCA0062172
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	NORMAL	ABNORMAL
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>800	<b>3141</b>	515	<b>▲</b> 734
Chromium	ppm	ASTM D5185m	>10	7	<1	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	13	3	3
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	39	6	10
Tin	ppm	ASTM D5185m	>8	<1	0	0
Antimony	ppm	ASTM D5185m	>50			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	21	4	16
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	4	2	3
Manganese	ppm	ASTM D5185m	0	21	4	5
Magnesium	ppm	ASTM D5185m	9	58	34	44
Calcium	ppm	ASTM D5185m	3114	2710	2531	2615
Phosphorus	ppm	ASTM D5185m	1099	942	1045	1030
Zinc	ppm	ASTM D5185m	1245	936	1213	1193
Sulfur	ppm	ASTM D5185m	7086	8686	7474	7357
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm		>400	41	14	14
Sodium	ppm	ASTM D5185m		3	<1	0
Potassium	ppm	ASTM D5185m	>20	2	0	1
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
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	>0.2	NEG	NEG	NEG

**NEG** 

NEG

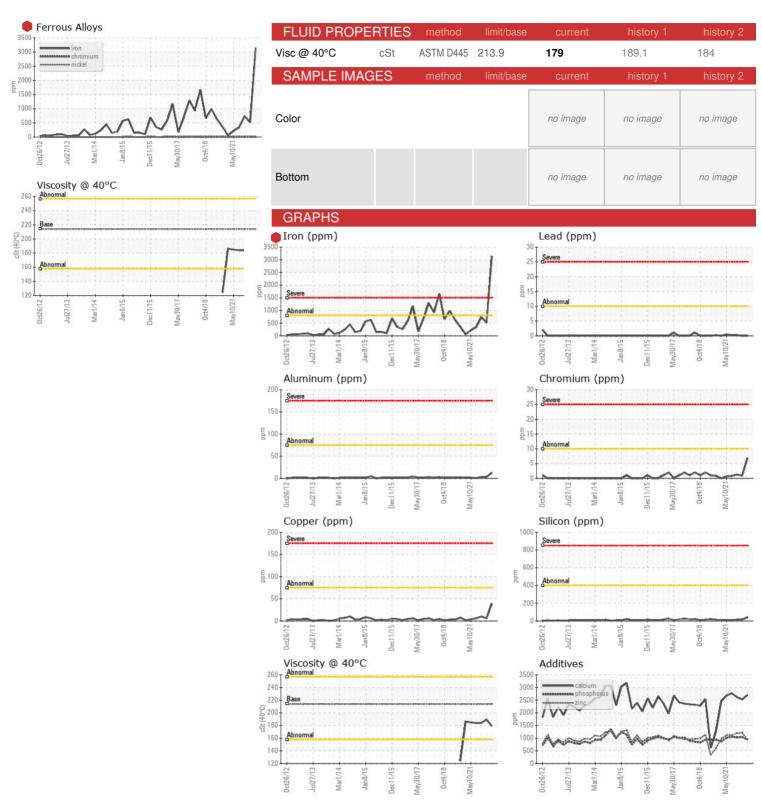
scalar \*Visual

Free Water

NEG



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Certificate L2367

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

: PCA0086434 : 05894683 : 10550493 Test Package : MOB 1

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

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

Kemp Quarries - Benton County Stone - Stillwell

463917 Highway 100 Bunch, OK US 74931

Contact:

F:

stilwell@bentoncountystone.com

T:

\* - 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)