

# **OIL ANALYSIS REPORT**



KEMP QUARRIES / KEMP STONE - FAIRLAND [66087] **WL071** 

Component **Rear Differential** 

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





### **DIAGNOSIS**

#### Recommendation

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. ( Customer Sample Comment: PM-3 sampled fluid )

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate concentration of water present in the oil.

#### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086236	PCA0086301	PCA0086053
Sample Date		Client Info		06 Dec 2023	20 Jun 2023	06 Apr 2023
Machine Age	hrs	Client Info		32462	32119	31788
Oil Age	hrs	Client Info		32462	32119	31788
Oil Changed	1110	Client Info		N/A	Changed	N/A
Sample Status		Olioni iino		ABNORMAL	NORMAL	NORMAL
·	_		11	-		
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	62	51	26
Chromium	ppm	ASTM D5185m	>3	0	0	<1
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	1	<1	1
Lead	ppm	ASTM D5185m	>13	0	0	0
Copper	ppm	ASTM D5185m	>103	14	11	5
Tin	ppm	ASTM D5185m	>5	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	2	7	0	0
Barium	ppm	ASTM D5185m	0	0	14	0
Molybdenum	ppm	ASTM D5185m	0	3	<1	<1
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	9	23	30	19
Calcium	ppm	ASTM D5185m	3114	3065	2933	2996
Phosphorus	ppm	ASTM D5185m	1099	947	1022	1024
Zinc	ppm	ASTM D5185m	1245	1195	1317	1281
Sulfur	ppm	ASTM D5185m	7086	5155	5795	6085
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	22	11	10
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>.2	<b>0.758</b>		
ppm Water	ppm	ASTM D6304	>2000	<b>▲</b> 7580		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	MODER	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	>.2	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



## **OIL ANALYSIS REPORT**





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

: 06034196 : 10789425

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0086236 Recieved : 13 Dec 2023 : 18 Dec 2023 Diagnosed

Diagnostician : Sean Felton

Test Package : MOB 1 ( Additional Tests: KF ) Certificate L2367 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)

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