

## **OIL ANALYSIS REPORT**

### Area KEMP QUARRIES / RIVER VALLEY ARKOMA OHT102

Front Right Final Drive

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

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### 📥 Wear

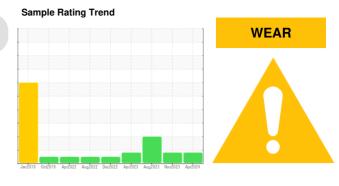
The copper level is abnormal. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

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

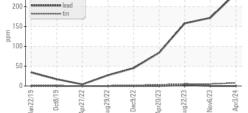


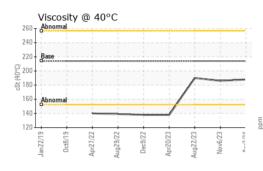
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0034664	PCA0084412	PCA0083941
Sample Date		Client Info		03 Apr 2024	06 Nov 2023	22 Aug 2023
Machine Age	hrs	Client Info		29902	29340	29115
Oil Age	hrs	Client Info		29115	29115	29115
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	169	139	130
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	1	2	<1
Lead	ppm	ASTM D5185m	>25	0	0	2
Copper	ppm	ASTM D5185m	>50	<u> </u>	<b>1</b> 72	<b>▲</b> 158
Tin	ppm	ASTM D5185m	>10	8	5	5
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	58	66	93
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	3	2	2
Manganese	ppm	ASTM D5185m	0	1	1	1
Magnesium	ppm	ASTM D5185m	9	10	11	5
Calcium	ppm	ASTM D5185m	3114	3321	3389	3508
Phosphorus	ppm	ASTM D5185m	1099	943	958	951
Zinc	ppm	ASTM D5185m	1245	1053	1104	01084
Sulfur	ppm	ASTM D5185m	7086	5652	5443	6687
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	18	18	18
Sodium	ppm	ASTM D5185m			0	<1
				1	0	
Potassium	ppm	ASTM D5185m	>20	1 0	2	1
Potassium VISUAL	ppm	ASTM D5185m method	>20 limit/base			
VISUAL White Metal	scalar	method *Visual	limit/base NONE	0 current MODER	2 history1 LIGHT	1 history2 LIGHT
VISUAL White Metal		method *Visual *Visual	limit/base	0 current MODER NONE	2 history1	1 history2 LIGHT NONE
VISUAL White Metal Yellow Metal Precipitate	scalar scalar scalar	method *Visual *Visual *Visual	limit/base NONE NONE NONE	0 current MODER NONE NONE	2 history1 LIGHT NONE NONE	1 history2 LIGHT NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt	scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual	limit/base NONE NONE	0 current MODER NONE NONE MODER	2 history1 LIGHT NONE NONE NONE	1 history2 LIGHT NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE	0 current MODER NONE NONE MODER NONE	2 history1 LIGHT NONE NONE	1 LIGHT NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE	0 current MODER NONE NONE NONE NONE	2 history1 LIGHT NONE NONE NONE NONE	1 history2 LIGHT NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE NONE	0 current MODER NONE NONE NONE NONE NORML	2 history1 LIGHT NONE NONE NONE NONE NONE NORML	1 history2 LIGHT NONE NONE NONE NONE NONE NORML
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE NONE NORML NORML	0 current MODER NONE NONE NONE NORE NORML NORML	2 history1 LIGHT NONE NONE NONE NONE	1 history2 LIGHT NONE NONE NONE NONE NONE NORML NORML
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE NONE	0 current MODER NONE NONE NONE NONE NORML	2 history1 LIGHT NONE NONE NONE NONE NONE NORML	1 history2 LIGHT NONE NONE NONE NONE NONE NORML



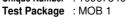
# **OIL ANALYSIS REPORT**











Laboratory

Sample No.

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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Certificate 12367

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