

# **OIL ANALYSIS REPORT**



#### Area G.LOPES CONSTRUCTION INC./OFF-ROAD Machine Id E-104 Component

Hydraulic System

## PETRO CANADA DURATRAN (--- GAL)

DIAGNOS	IS	
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Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### 🔺 Wear

The iron level is abnormal. The chromium level is abnormal.

### Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0018787	PCA0104750	PCA0083409	
Sample Date		Client Info		07 Feb 2024	20 Sep 2023	06 Dec 2022	
Machine Age	hrs	Client Info		9403	9015	0	
Oil Age	hrs	Client Info		9403	9015	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2	
Water		WC Method	>0.1	NEG	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	<b>A</b> 21	15	<b>A</b> 33	
Chromium	ppm	ASTM D5185m	>10	<u> </u>	8	<b>1</b> 7	
Nickel	ppm	ASTM D5185m	>10	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>10	1	1	1	
Lead	ppm	ASTM D5185m	>10	0	0	0	
Copper	ppm	ASTM D5185m	>75	2	1	3	
Tin	ppm	ASTM D5185m	>10	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	110	61	57	7	
Barium	ppm	ASTM D5185m	0.0	0	0	0	
Molybdenum	ppm	ASTM D5185m	0.0	3	2	2	
Manganese	ppm	ASTM D5185m	1	<1	0	<1	
Magnesium	ppm	ASTM D5185m	13	46	53	17	
Calcium	ppm	ASTM D5185m	3610	1907	2022	278	
Phosphorus	ppm	ASTM D5185m	1192	769	794	460	
Zinc	ppm	ASTM D5185m	1455	969	1057	550	
Sulfur	ppm	ASTM D5185m	2641	2579	3194	2113	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	9	8	4	
Sodium	ppm	ASTM D5185m		3	3	1	
Potassium	ppm	ASTM D5185m	>20	0	4	0	
FLUID CLEANL	INESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	<u> </u>	<u> </u>	<b>4</b> 9865	
Particles >6µm		ASTM D7647	>1300	688	1138	486	
Particles >14µm		ASTM D7647	>160	14	31	10	
Particles >21µm		ASTM D7647	>40	3	5	3	
Particles >38µm		ASTM D7647	>10	0	1	0	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>4</b> 23/17/11	<b>2</b> 2/17/12	▲ 23/16/10	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	0.83	0.84	0.43	
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# **OIL ANALYSIS REPORT**

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method

\*Visual

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VISUAL

White Metal

Yellow Metal







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35

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(B/HOX)

(mg



limit/base

NONE

NONE

current

NONE

NONE

history1

LIGHT

NONE

history2

NONE

NONE

Bottom



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