

## **OIL ANALYSIS REPORT**





#### Area G.LOPES CONSTRUCTION INC./Off-Road Machine Id E83 Component

**Hydraulic System** 

### PETRO CANADA DURATRAN (--- GAL)

	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		PCA0109741	PCA0078144	PCA0072035
ld perform a	Sample Date		Client Info		16 Jan 2024	17 Aug 2022	19 Apr 2022
eady done.	Machine Age	hrs	Client Info		12563	11847	11498
ce(s) of	Oil Age	hrs	Client Info		11466	10900	10900
e to monitor	Oil Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	SEVERE	SEVERE
	CONTAMINAT	ION	method	limit/base	current	history1	history2
	Water		WC Method	>0.1	NEG	NEG	NEG
es < 14	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>20	<b>e</b> 104	<b>e</b> 291	<b>1</b> 87
The oil is abnormal	Chromium	ppm	ASTM D5185m	>10	0	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m	>10	<1	2	1
	Lead	ppm	ASTM D5185m	>10	<1	2	1
	Copper	ppm	ASTM D5185m	>75	2	2	1
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Antimony	ppm	ASTM D5185m				
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	110	55	103	107
	Barium	ppm	ASTM D5185m	0.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0.0	4	5	5
	Manganese	ppm	ASTM D5185m	1	2	4	3
	Magnesium	ppm	ASTM D5185m	13	52	56	60
	Calcium	ppm	ASTM D5185m	3610	2493	3200	3211
	Phosphorus	ppm	ASTM D5185m	1192	952	1121	1144
	Zinc	ppm	ASTM D5185m	1455	1144	1426	1421
	Sulfur	ppm	ASTM D5185m	2641	2997	4456	3731
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	6	8	8
	Sodium	ppm	ASTM D5185m		1	6	4
	Potassium	ppm	ASTM D5185m	>20	0	2	2
	FLUID CLEANI	INESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>5000	<b>422225</b>	▲ 390101	▲ 204714
	Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 241502	▲ 139255
	Particles >14µm		ASTM D7647	>160	110	<b>4</b> 81	<b>9</b> 48
	Particles >21µm		ASTM D7647	>40	14	4	2
	Deutiele e . 00:um			> 10	1	0	0

ASTM D7647 >3

0

ISO 4406 (c) >19/17/14 **4 26/25/14** 

#### Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

#### 🛑 Wear

The iron level is severe.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Particles >71µm

**Oil Cleanliness** 

0

▲ 25/24/17

0

▲ 26/25/16



# **OIL ANALYSIS REPORT**



\* - 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)

Sep7/21

565 WINTHROP ST

TAUNTON, MA

US 02780

T:

F:

Nov16/19

**G LOPES CONSTRUCTION** 

Contact: BUTCH MCGRATH

bmcgrath@glopes.com

Aug17/22



21µ

0.91

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

Particle Count

Acid Number

Sen24/16

Jan 18/18

26/18

Base

491,52

122,88

30 72

1,92

480

120

30

KOH/g)

B

Acid 1

1.00

NEG

NEG

1.05

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

0.81

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

-20

18

14

12 0

NEG

NEG