

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

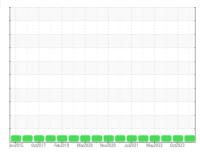




# G.LOPES CONSTRUCTION INC./Off-Road **E346**

Component **Hydraulic System** 

PETRO CANADA DURATRAN (--- GAL)





### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

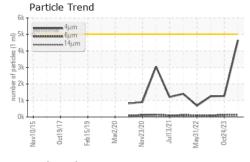
#### **Fluid Condition**

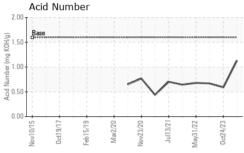
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

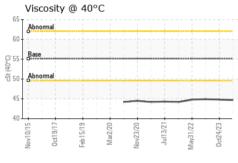
RATRAN ( GAL	.)	lov2015 Oct2	017 Feb2019 Mar2020	Nov2020 Jul2021 May2022	Oct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109945	PCA0109826	PCA0083105
Sample Date		Client Info		26 Mar 2024	24 Oct 2023	12 Apr 2023
Machine Age	hrs	Client Info		8296	8004	8004
Oil Age	hrs	Client Info		6895	6895	7000
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	31	27	33
Chromium	ppm	ASTM D5185m	>10	3	3	3
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	4	3	3
Lead	ppm	ASTM D5185m	>10	2	<1	2
Copper	ppm	ASTM D5185m	>75	25	22	22
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	110	33	23	34
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0.0	2	0	2
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	13	16	21	16
Calcium	ppm	ASTM D5185m	3610	998	940	998
Phosphorus	ppm	ASTM D5185m	1192	822	836	816
Zinc	ppm	ASTM D5185m	1455	972	1044	1011
Sulfur	ppm	ASTM D5185m	2641	3757	3925	4084
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	7	8
Sodium	ppm	ASTM D5185m		3	1	2
Potassium	ppm	ASTM D5185m	>20	3	<1	2
FLUID CLEANI	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4642	1268	1249
Particles >6μm		ASTM D7647	>1300	134	131	86
Particles >14μm		ASTM D7647	>160	13	10	6
Particles >21µm		ASTM D7647	>40	4	2	2
Particles >38μm		ASTM D7647	>10	0	0	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/14/11	17/14/10	17/14/10
FLUID DEGRA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	1.13	0.59	0.668

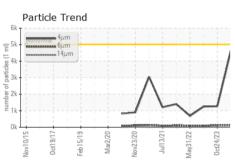


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID FNOF	EULIES	method			HISTOLAL	HISTOLYZ
Visc @ 40°C	cSt	ASTM D445	55.14	44.7	44.8	44.9

SAMPLE IMAGES

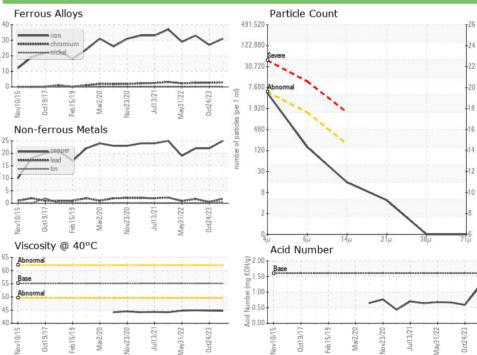






**Bottom** 

Color







Certificate L2367

Laboratory Sample No.

Lab Number : 06133195 Unique Number: 10952660 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0109945

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

**Tested** 

Received : 29 Mar 2024 : 03 Apr 2024

: 03 Apr 2024 - Jonathan Hester Diagnosed

Contact: BUTCH MCGRATH bmcgrath@glopes.com

T:

**G LOPES CONSTRUCTION** 

565 WINTHROP ST

TAUNTON, MA

US 02780

F:

\* - 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)