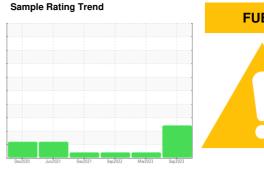


# **OIL ANALYSIS REPORT**

# G.LOPES CONSTRUCTION INC./Off-Road **PS 36**

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- GAL)





### **DIAGNOSIS**

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

### Contamination

Light fuel dilution occurring.

#### ▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

IAL)		Dec2020	Jun2021 Dec2021	Sep 2022 Mar 2023	Sep 2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104661	PCA0083075	PCA0078356
Sample Date		Client Info		05 Sep 2023	29 Mar 2023	20 Sep 2022
Machine Age	hrs	Client Info		2007	1719	1417
Oil Age	hrs	Client Info		1023	1037	1090
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ATTENTION
CONTAMINATION	NC	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	)	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	9	24	32
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
	ppm	ASTM D5185m	>20	3	8	10
	ppm	ASTM D5185m	>40	0	<1	<1
	ppm	ASTM D5185m	>330	2	12	38
	ppm	ASTM D5185m	>15	0	0	<1
	ppm	ASTM D5185m				
,	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	5	5
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	<u>^</u> 2	64	66
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	<u>^</u> 28	1089	993
Calcium	ppm	ASTM D5185m	1070	<u> </u>	1230	1132
Phosphorus	ppm	ASTM D5185m	1150	1027	1115	1041
Zinc	ppm	ASTM D5185m	1270	1221	1451	1346
Sulfur	ppm	ASTM D5185m	2060	4628	3688	3640
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		1	<1	3
Potassium	ppm	ASTM D5185m	>20	2	2	0
Fuel	%	ASTM D3524	>5	<b>△</b> 3.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
					,	
Soot %	%	*ASTM D7844	>3	0	0.1	0.1
Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	0 3.4	0.1 7.7	0.1 8.4
	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415		0 3.4 23.7	0.1 7.7 18.9	0.1 8.4 20.7
Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	3.4	7.7	8.4
Nitration Sulfation FLUID DEGRAD	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	3.4 23.7 current	7.7 18.9 history1	8.4 20.7 history2
Nitration Sulfation FLUID DEGRAD Oxidation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	3.4 23.7	7.7 18.9	8.4 20.7



## **OIL ANALYSIS REPORT**







Certificate L2367

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

: PCA0104661 : 05944759

: 10635371

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Sep 2023 Diagnosed : 11 Sep 2023

Diagnostician : Wes Davis Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

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)

**G LOPES CONSTRUCTION** 

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T: F: