

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**NORMAL** 

# **G.LOPES CONSTRUCTION INC./ON-ROAD**

373

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.

Metal levels are typical for a components first oil change.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

#### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)				Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109902		
Sample Date		Client Info		01 Apr 2024		
Machine Age	hrs	Client Info		32000		
Oil Age	hrs	Client Info		32000		
Oil Changed	0	Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method		<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method	7 0.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron		ASTM D5185m	>100	38		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m	<b>7</b> 4	<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	31		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	260		
Tin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	60		
Manganese	ppm	ASTM D5185m	0	1		
Magnesium	ppm	ASTM D5185m	1010	955		
Calcium	ppm	ASTM D5185m	1070	1245		
Phosphorus	ppm	ASTM D5185m	1150	970		
Zinc	ppm	ASTM D5185m	1270	1177		
Sulfur	ppm	ASTM D5185m	2060	2758		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	64		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	8.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.84		



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No.

: PCA0109902 Lab Number : 06137623 Unique Number: 10957088 Test Package : MOB 2

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 03 Apr 2024 : 04 Apr 2024 Diagnosed

: 04 Apr 2024 - Wes Davis

**G LOPES CONSTRUCTION** 565 WINTHROP ST

TAUNTON, MA US 02780

Contact: BUTCH MCGRATH bmcgrath@glopes.com

\* - 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) T:

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