

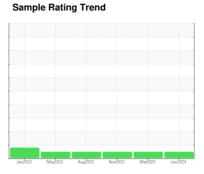
# **OIL ANALYSIS REPORT**

# G.LOPES CONSTRUCTION INC./ON-ROAD

359

**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

There is no indication of any contamination in the oil.

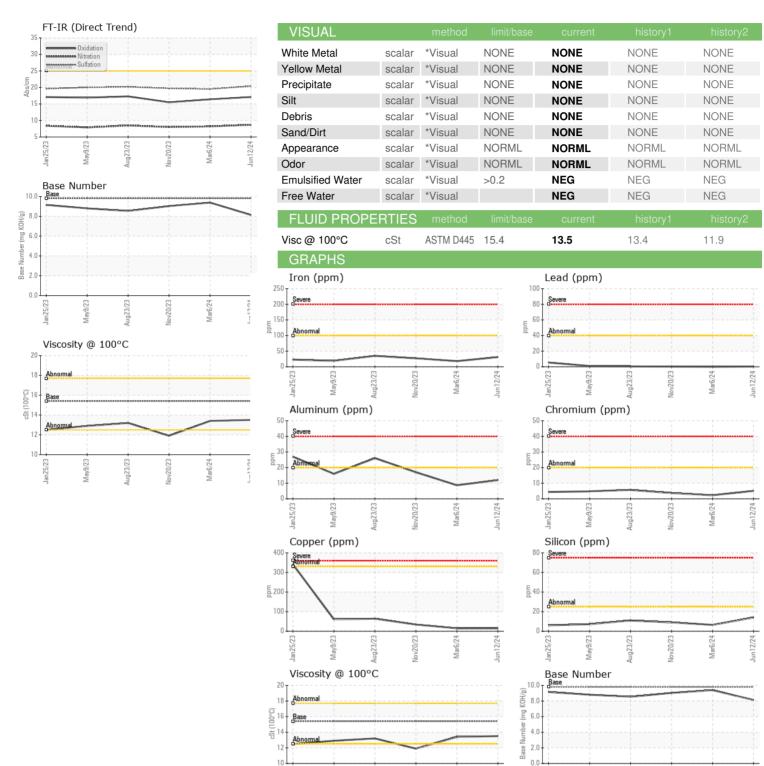
#### Fluid Condition

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

GAL)		Jan2023	May2023 Aug2023	Nov2023 Mar2024	Jun2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0122956	PCA0109542	PCA0109775
Sample Date		Client Info		12 Jun 2024	06 Mar 2024	20 Nov 2023
Machine Age	hrs	Client Info		132000	112000	92000
Oil Age	hrs	Client Info		132000	112000	92000
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	31	18	27
Chromium	ppm	ASTM D5185m	>20	5	2	4
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	12	9	17
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m		15	15	34
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	4	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	73	57	57
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1156	868	815
Calcium	ppm	ASTM D5185m	1070	1338	1051	1215
Phosphorus	ppm	ASTM D5185m	1150	1117	948	1006
Zinc	ppm	ASTM D5185m	1270	1497	1076	1169
Sulfur	ppm	ASTM D5185m	2060	2865	2695	2406
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	6	9
Sodium	ppm	ASTM D5185m	. 20	6	4	3
Potassium	ppm	ASTM D5185m		19	15	40
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.2	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	19.5	19.7
FLUID DEGRAD		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	16.4	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.13	9.38	9.03



## **OIL ANALYSIS REPORT**







Laboratory Sample No.

Test Package : MOB 2

: PCA0122956 Lab Number : 06210352 Unique Number : 11083216

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2024 **Tested** : 17 Jun 2024

Vov20/23

Diagnosed : 17 Jun 2024 - Wes Davis

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

**G LOPES CONSTRUCTION** 

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Contact: BUTCH MCGRATH bmcgrath@glopes.com

Submitted By: MATT MANOLI

T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Jun12/24