

## **OIL ANALYSIS REPORT**

# G.LOPES CONSTRUCTION INC./Off-Road

Component
Diesel Engine

Fluid

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

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

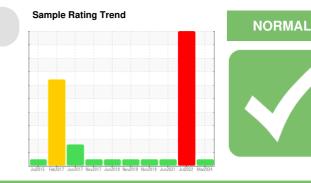
All component wear rates are normal.

#### 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.

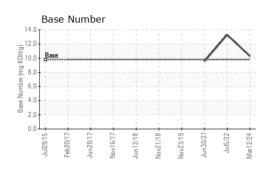


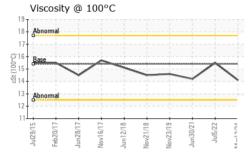
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0110067	PCA0066515	WC0594428
Sample Date		Client Info		12 Mar 2024	05 Jul 2022	30 Jun 2021
Machine Age	hrs	Client Info		7023	6939	6814
Oil Age	hrs	Client Info		6898	125	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	43	▲ 695	10
Chromium	ppm	ASTM D5185m	>20	4	<b>4</b> 7	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	6	21	0
Lead	ppm	ASTM D5185m	>40	1	3	<1
Copper	ppm	ASTM D5185m	>330	4	15	1
Tin	ppm	ASTM D5185m	>15	<1	3	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	19	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	76	59
Manganese	ppm	ASTM D5185m	0	<1	7	<1
Magnesium	ppm	ASTM D5185m	1010	871	1084	875
Calcium	ppm	ASTM D5185m	1070	1085	1336	964
Phosphorus	ppm	ASTM D5185m	1150	960	1079	931
Zinc	ppm	ASTM D5185m	1270	1145	1307	1084
Sulfur	ppm	ASTM D5185m	2060	3059	3670	2579
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	<b>4</b> 8	8
Sodium	ppm	ASTM D5185m		18	12	10
Potassium	ppm	ASTM D5185m	>20	2	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.5	7.6	4.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.9	19.3	18.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	16.0	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.28	13.3	9.55

Submitted By: MATT MANOLI



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Certificate L2367

Laboratory

Sample No.