

## **OIL ANALYSIS REPORT**

Sample Rating Trend





## G.LOPES CONSTRUCTION INC./OFF-ROAD E-104 Component

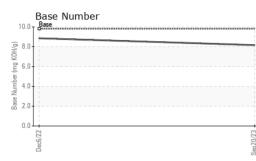
**Diesel Engine** Fluid

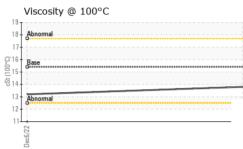
PETRO CANADA DURON SHP 15W40 (--- GAL)

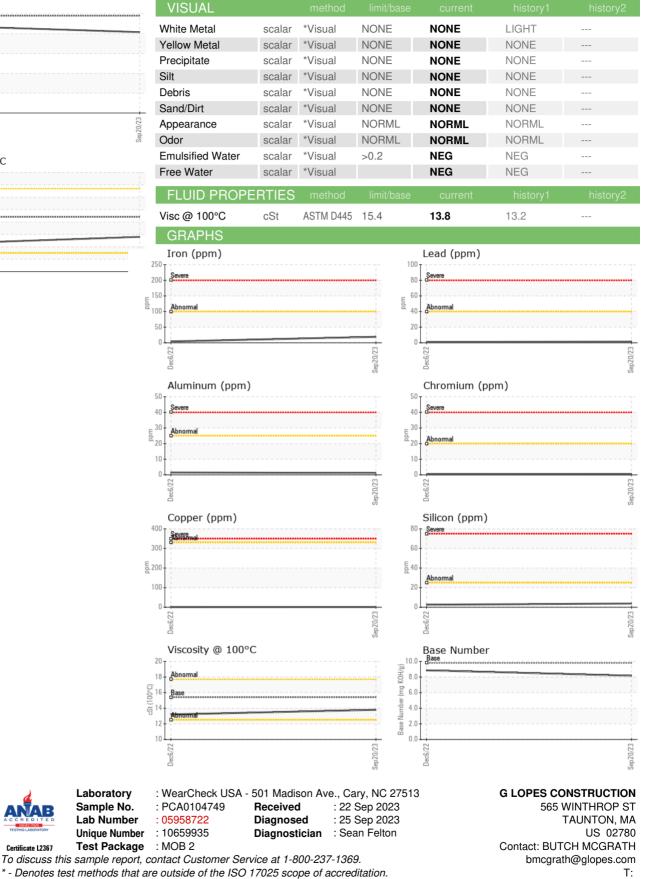
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		PCA0104749	PCA0083410	
esample at the next service interval to monitor.	Sample Date		Client Info		20 Sep 2023	06 Dec 2022	
/ear	Machine Age	hrs	Client Info		9403	9015	
Il component wear rates are normal.	Oil Age	hrs	Client Info		9403	9015	
•	Oil Changed		Client Info		N/A	N/A	
ontamination here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	
bil.	CONTAMINAT		method	limit/base		history1	history2
Fluid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the bil is suitable for further service.	Fuel		WC Method		<1.0	<1.0	
	Glycol		WC Method		NEG	NEG	
	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>100	19	4	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>2	0	<1	
	Titanium	ppm	ASTM D5185m	>2	0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>25	1	2	
	Lead	ppm	ASTM D5185m	>40	1	1	
	Copper	ppm	ASTM D5185m	>330	1	<1	
	Tin	ppm	ASTM D5185m		0	1	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	25	72	
	Barium	ppm	ASTM D5185m	0	0	0	
	Molybdenum	ppm	ASTM D5185m		88	88	
	Manganese	ppm	ASTM D5185m	0	0	<1	
	Magnesium	ppm	ASTM D5185m		399	77	
	Calcium	ppm	ASTM D5185m		2024	2284	
	Phosphorus	ppm	ASTM D5185m				
			ASTV DUTOUT	1150	1085	1009	
	Zinc				1085 1370	1069 1292	
	Zinc Sulfur	ppm ppm	ASTM D5185m		1370 4292	1292 4549	
		ppm ppm	ASTM D5185m	1270	1370 4292	1292	
	Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060 limit/base	1370 4292	1292 4549	
	Sulfur CONTAMINAN	ppm ppm	ASTM D5185m ASTM D5185m method	1270 2060 limit/base	1370 4292 current	1292 4549 history1	
	Sulfur CONTAMINAN Silicon	ppm ppm NTS ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	1270 2060 limit/base >25	1370 4292 current 4	1292 4549 history1 3	  history2
	Sulfur CONTAMINAN Silicon Sodium	ppm ppm VTS ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1270 2060 limit/base >25	1370 4292 current 4 4 2	1292 4549 history1 3 <1	 history2 
	Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm VTS ppm ppm	ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m ASTM D5185m	1270 2060 limit/base >25 >20 limit/base	1370 4292 current 4 4 2	1292 4549 history1 3 <1 <1	 history2  
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm VTS ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m Method	1270 2060 imit/base >25 >20 imit/base >3	1370 4292 current 4 4 2 current	1292 4549 history1 3 <1 <1 <1 history1	 history2   history2
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm VTS ppm ppm ppm % Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	1270 2060 >25 >20 20 limit/base >3 >20	1370 4292 current 4 4 2 current 0.5	1292 4549 history1 3 <1 <1 <1 history1 0.2	 history2   history2 
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm VTS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7415	1270 2060 >25 >20 20 limit/base >3 >20	1370 4292 current 4 4 2 current 0.5 11.9 24.9	1292 4549 history1 3 <1 <1 <1 history1 0.2 10.3	 history2   history2  history2
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm JTS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7415	1270 2060 >25 >20 20 >30 >30 Limit/base	1370 4292 current 4 4 2 current 0.5 11.9 24.9	1292 4549 history1 3 <1 <1 <1 history1 0.2 10.3 20.3	 history2   history2  



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\* - 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)

Certificate L2367

Laboratory

Sample No.

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