

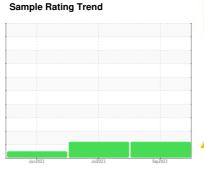
OIL ANALYSIS REPORT

G.LOPES CONSTRUCTION INC./ON-ROAD

365

Component **Diesel Engine**

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





DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

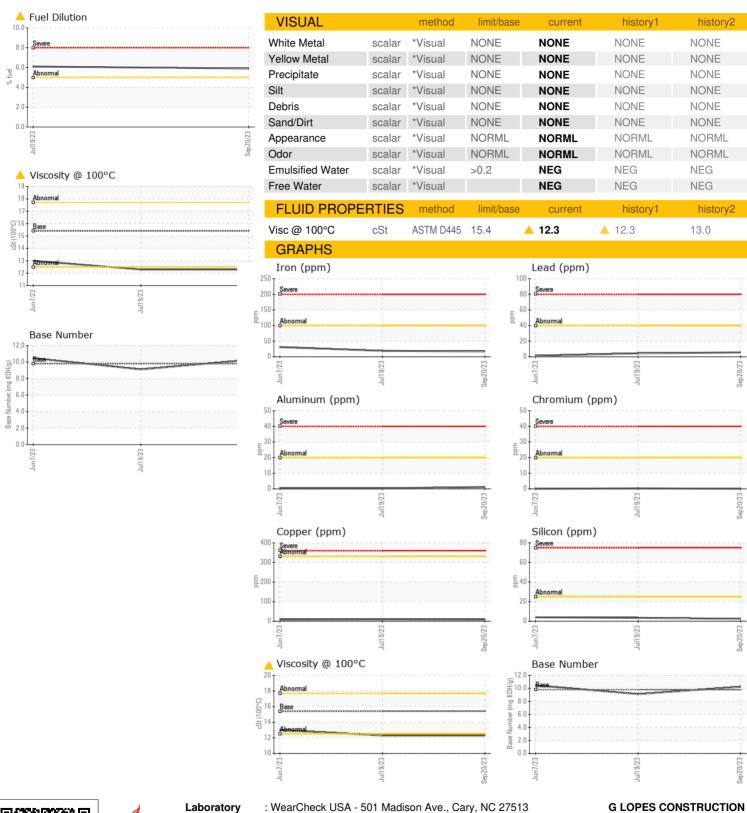
▲ Fluid Condition

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 oil is no longer serviceable due to the presence of contaminants.

āAL)		Jur	2023	Jul2023 Sep202	13	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104745	PCA0098430	PCA0098517
Sample Date		Client Info		20 Sep 2023	19 Jul 2023	07 Jun 2023
Machine Age	hrs	Client Info		111000	103000	95500
Oil Age	hrs	Client Info		111000	103000	95500
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	17	19	31
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	<1
Lead	ppm	ASTM D5185m	>40	6	4	1
Copper	ppm	ASTM D5185m	>330	9	10	9
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	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	4	4	6
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	55	59	55
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	933	879	926
Calcium	ppm	ASTM D5185m	1070	1092	1080	1205
Phosphorus	ppm	ASTM D5185m	1150	955	975	1021
Zinc	ppm	ASTM D5185m	1270	1223	1178	1223
Sulfur	ppm	ASTM D5185m	2060	3491	3203	3813
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	4	4
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	4	1	0
Fuel	%	ASTM D3524	>5	△ 5.9	<u>▲</u> 6.1	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.2
3001 /6	/0					
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.5	5.0
		*ASTM D7624 *ASTM D7415	>20 >30	6.7 20.8	6.5 20.3	5.0 18.2
Nitration	Abs/cm Abs/.1mm	*ASTM D7415				
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7415	>30	20.8	20.3	18.2
Nitration Sulfation FLUID DEGRAI	Abs/cm Abs/.1mm	*ASTM D7415 method	>30 limit/base >25	20.8 current	20.3 history1	18.2 history2



OIL ANALYSIS REPORT







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

: 05958731

: PCA0104745 : 10659944

Received : 22 Sep 2023 Diagnosed

: 26 Sep 2023 Diagnostician : Wes Davis

Test Package : MOB 2 (Additional Tests: 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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