

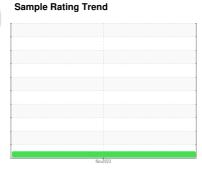
OIL ANALYSIS REPORT



FREIGHTLINER 422049

Component **Diesel Engine**

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





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a components first oil change.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

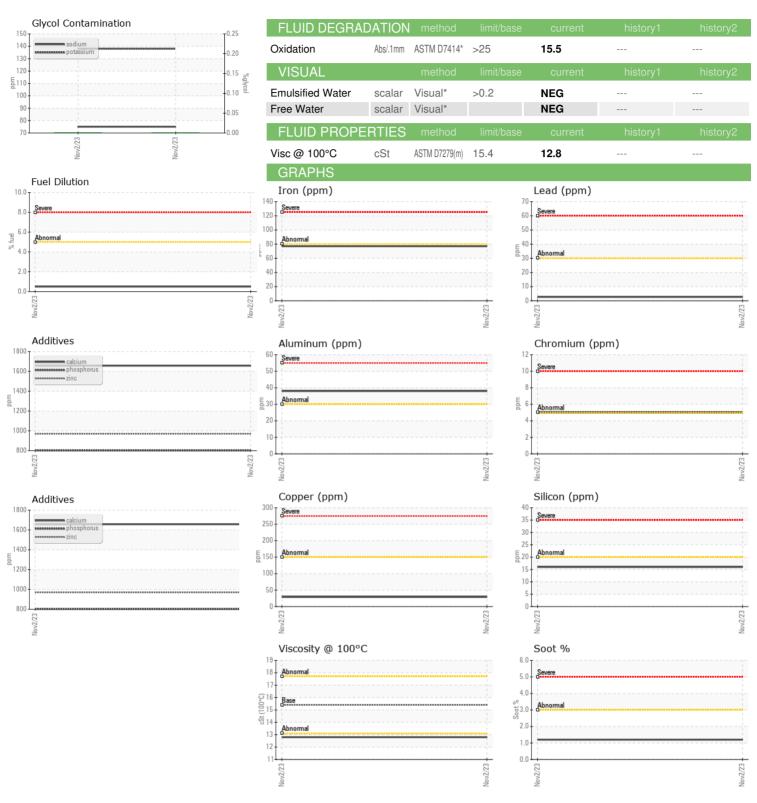
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

N SHP 15W40 (- GAL)			Nov2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096334		
Sample Date		Client Info		02 Nov 2023		
Machine Age	hrs	Client Info		600		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	77		
Chromium	ppm	ASTM D5185(m)	>5	5		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>30	38		
Lead	ppm	ASTM D5185(m)	>30	3		
Copper	ppm	ASTM D5185(m)	>150	29		
Tin	ppm	ASTM D5185(m)	>5	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	3		
Barium	ppm	ASTM D5185(m)	0	<1		
Molybdenum	ppm	ASTM D5185(m)	60	22		
Manganese	ppm	ASTM D5185(m)	0	1		
Magnesium	ppm	ASTM D5185(m)	1010	230		
Calcium	ppm	ASTM D5185(m)	1070	1657		
Phosphorus	ppm	ASTM D5185(m)	1150	801		
Zinc	ppm	ASTM D5185(m)	1270	969		
Sulfur	ppm	ASTM D5185(m)	2060	2287		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	16		
Sodium	ppm	ASTM D5185(m)		75		
Potassium	ppm	ASTM D5185(m)	>20	138		
Fuel	%	ASTM D7593*	>5	0.5		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.2		
Nitration	Abs/cm	ASTM D7624*	>20	9.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.7		



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CALA ISO 17025:2017 Accredited Laboratory

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

: GFL0096334 : 02602766

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received

: 13 Dec 2023 : 14 Dec 2023 Diagnosed Diagnostician : Kevin Marson

Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: 5695851

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

GFL Environmental - 527 740 Pine Street South

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