

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL	ABNORMAL			
Fuel	%	ASTM D3524	>3.0	• 7.7	5 .6	5 .0			
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	13.3	1 1.3			

Customer Id: GFL410 Sample No.: GFL0110000 Lab Number: 06064809 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDE	O ACTIONS			
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Check Fuel/injector System			?	We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS



28 Dec 2023 Diag: Wes Davis

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.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



view report

15 Nov 2023 Diag: Don Baldridge



We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Piston, ring and cylinder wear is indicated. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

09 Aug 2022 Diag: Wes Davis





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



4639M Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (36 GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Becommendation	Sample Number		Client Info		GFL0110000	GFL0104396	GFL008496
e advise that you check the fuel injection system.	Sample Date		Client Info		11 Jan 2024	28 Dec 2023	15 Nov 2023
ne oil change at the time of sampling has been	Machine Age	hrs	Client Info		18658	18523	18139
ted. We recommend an early resample to	Oil Age	hrs	Client Info		600	18523	18139
onitor this condition.	Oil Changed		Client Info		Changed	N/A	Changed
ear	Sample Status				SEVERE	ABNORMAL	ABNORMAL
component wear rates are normal.	•				_		
Contamination	CONTAMINAT	ION	method	limit/base	current	history1	history2
ere is a high amount of fuel present in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
sts confirm the presence of fuel in the oil.	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition	WEAR METAL	S	method	limit/base	current	history1	history2
e BN result indicates that there is suitable alinity remaining in the oil. Fuel is present in the	Iron	ppm	ASTM D5185m	>75	23	16	▲ 78
and is lowering the viscosity. The oil is no longer	Chromium	ppm	ASTM D5185m		<1	<1	2
viceable due to the presence of contaminants.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver		ASTM D5185m		0	<1	<1
	Aluminum	ppm ppm	ASTM D5185m		1	2	▲ 22
	Lead		ASTM D5185m		، <1	0	<1
	Copper	ppm	ASTM D5185m		<1	<1	3
	Tin	ppm	ASTM D5185m			0	
	Vanadium	ppm		>4	0		<1
	Cadmium	ppm	ASTM D5185m ASTM D5185m		<1 0	0	0
		ppm				0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	<1	11	22
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	55	54	48
	Manganese	ppm	ASTM D5185m	0	<1	<1	2
	Magnesium	ppm	ASTM D5185m	1010	916	862	809
	Calcium	ppm	ASTM D5185m	1070	946	953	928
	Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	1070 1150	946 982	953 934	928 872
	Phosphorus	ppm	ASTM D5185m	1150	982	934	872
	Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	1150 1270	982 1182 2726	934 1152	872 1100 2643
	Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1150 1270 2060 limit/base	982 1182 2726	934 1152 2651	872 1100 2643
	Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	1150 1270 2060 limit/base	982 1182 2726 current	934 1152 2651 history1	872 1100 2643 history2
	Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1150 1270 2060 limit/base >25	982 1182 2726 current 4	934 1152 2651 history1 8	872 1100 2643 history2 22
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	1150 1270 2060 limit/base >25 >20	982 1182 2726 current 4 6	934 1152 2651 history1 8 68	872 1100 2643 history2 22 6
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	1150 1270 2060 limit/base >25 >20	982 1182 2726 current 4 6 <1 • 7.7	934 1152 2651 history1 8 68 2	872 1100 2643 history2 22 6 3 3 ▲ 5.0
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	1150 1270 2060 limit/base >25 >20 >3.0 limit/base	982 1182 2726 current 4 6 <1 • 7.7 current	934 1152 2651 history1 8 68 2 2 ▲ 5.6 history1	872 1100 2643 history2 22 6 3 3 ▲ 5.0
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1150 1270 2060 >25 >20 >3.0 >3.0 S6	982 1182 2726 current 4 6 <1 • 7.7	934 1152 2651 history1 8 68 2 2 ▲ 5.6	872 1100 2643 22 6 3 ▲ 5.0 history2
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844	1150 1270 2060 limit/base >25 >20 >3.0 limit/base >6 >20	982 1182 2726 Current 4 6 <1 7.7 Current 0.6	934 1152 2651 history1 8 68 2 2 ▲ 5.6 history1 0.4	872 1100 2643 22 6 3 ▲ 5.0 history2 1
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7844 *ASTM D7415	1150 1270 2060 limit/base >25 >20 >3.0 limit/base >6 >20	982 1182 2726 Current 4 6 <1 7.7 Current 0.6 12.2 22.8	934 1152 2651 history1 8 68 2 2 ▲ 5.6 history1 0.4 10.2	872 1100 2643 22 6 3 ▲ 5.0 history2 1 9.1
	Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm TS ppm ppm ppm % % Abs/cm Abs/1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7844 *ASTM D7415	1150 1270 2060 limit/base >25 >20 >3.0 limit/base >30 limit/base	982 1182 2726 Current 4 6 <1 7.7 Current 0.6 12.2 22.8	934 1152 2651 history1 8 68 2 2 5 .6 history1 0.4 10.2 22.1	872 1100 2643 22 6 3 ▲ 5.0 history2 1 9.1 21.6

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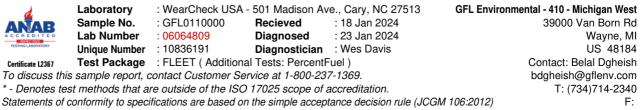


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OIL ANALYSIS REPORT



Diagnostician : Wes Davis



Dec28/23

Vov15/23

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.3

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

▲ 11.3

Certificate L2367

Unique Number

: 10836191

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.

Test Package : FLEET (Additional Tests: PercentFuel)

Submitted By: Belal Dgheish

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