

PROBLEM SUMMARY

Sample Rating Trend

DIRT

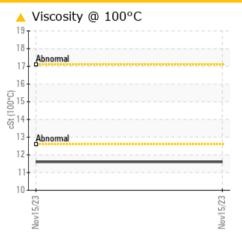


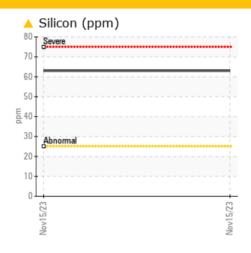
Machine Id **826010**

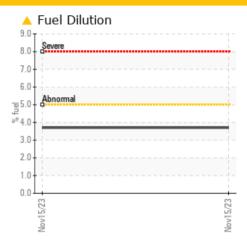
Component **Diesel Engine**

PETRO CANADA 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	
Silicon	ppm	ASTM D5185m	>25	<u></u> ▲ 63	
Fuel	%	ASTM D3524	>5	▲ 3.7	
Visc @ 100°C	cSt	ASTM D445		11.6	

Customer Id: GFL019 Sample No.: GFL0094475 Lab Number: 06009406 Test Package: FLEET



To manage this report scan the QR code

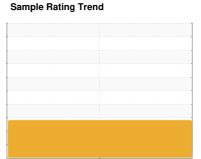
To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		



OIL ANALYSIS REPORT





DIAGNOSIS

826010 Component **Diesel Engine**

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PETRO CANADA 15W40 (--- GAL)

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. Light fuel dilution occurring.

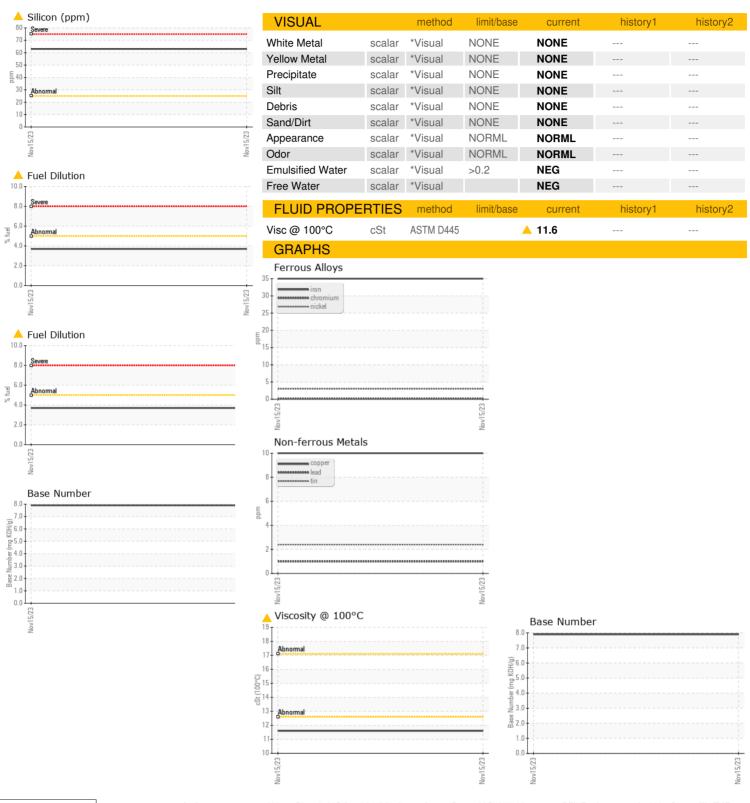
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

				Nov2023		
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094475		
Sample Date		Client Info		15 Nov 2023		
	hrs	Client Info		9923		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	35		
	ppm	ASTM D5185m	>20	<1		
	ppm	ASTM D5185m	>4	3		
	ppm	ASTM D5185m		<1		
	ppm	ASTM D5185m	>3	0		
1	ppm	ASTM D5185m	>20	2		
	ppm	ASTM D5185m	>40	1		
	ppm		>330	10		
	ppm	ASTM D5185m	>15	2		
	ppm	ASTM D5185m	7 10	- <1		
	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base		hiotorya	history2
_			IIIIIIIIIIIIIII	current	history1	HISTOLYZ
	ppm	ASTM D5185m		3		
	ppm	ASTM D5185m		<1		
	ppm	ASTM D5185m		59		
	ppm	ASTM D5185m		2		
	ppm	ASTM D5185m		895		
	ppm	ASTM D5185m		1081		
	ppm	ASTM D5185m		942		
	ppm	ASTM D5185m		1193		
Sulfur	ppm	ASTM D5185m		2843		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	△ 63		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	5		
Fuel	%	ASTM D3524	>5	△ 3.7		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	7.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3		
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation /	Abs/.1mm	*ASTM D7414	>25	15.9		
	mg KOH/g	ASTM D2896		7.9		
= 3.20 · (3.1.30)						



OIL ANALYSIS REPORT





Certificate L2367

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

: GFL0094475 : 06009406 : 10743168

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Nov 2023 : 20 Nov 2023 Diagnosed Diagnostician : Sean Felton

Test Package: FLEET (Additional Tests: FuelDilution, 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)

GFL Environmental - 019 - Greenville/TriEast

415 Staton Road Greenville, NC US 27834 Contact: Spencer Liggon spencer.liggon@gflenv.com

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