

Sample Rating Trend

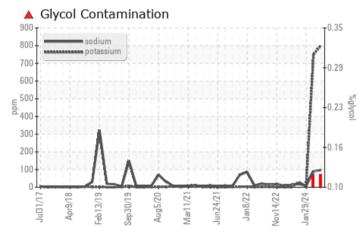


Area (P633830) 3759C

Component Natural Gas Engine Fluid

PETRO CANADA DURON GEO LD 15W40 (40 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	NORMAL		
Sodium	ppm	ASTM D5185m		<u> </u>	▲ 90	7		
Potassium	ppm	ASTM D5185m	>20	<u> </u>	A 751	6		
Glycol	%	*ASTM D2982		4 0.12	▲ 0.12			

Customer Id: GFL030 Sample No.: GFL0101766 Lab Number: 06144088 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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



RECOMMENDED ACTIONS							
Action Change Fluid	Status	Date	Done By	Description 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.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS

08 Apr 2024 Diag: Jonathan Hester

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. 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.





GLYCOL

29 Jan 2024 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.





22 Jun 2023 Diag: Angela Borella

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.





(P633830)

3759C

OIL ANALYSIS REPORT

Sample Rating Trend

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GLYCOL

Natural Gas Engine PETRO CANADA DURON GEO LD 15W40 (40 QTS)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Area

Fluid

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive.

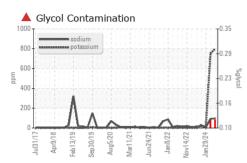
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

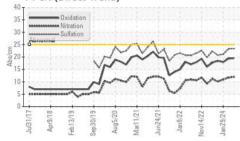
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101766	GFL0101764	GFL0101780
Sample Date		Client Info		09 Apr 2024	08 Apr 2024	29 Jan 2024
Machine Age	hrs	Client Info		18000	17600	17000
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	23	33	10
Chromium	ppm	ASTM D5185m	>4	3	4	1
Nickel	ppm	ASTM D5185m	>2	1	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	7	8	4
Lead	ppm	ASTM D5185m	>30	6	5	<1
Copper	ppm	ASTM D5185m	>35	1	1	<1
Tin	ppm	ASTM D5185m	>4	1	1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	9	8
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	63	63	50
Manganese	ppm	ASTM D5185m	0	1	1	<1
Magnesium	ppm	ASTM D5185m	560	560	564	483
Calcium	ppm	ASTM D5185m	1510	1665	1694	1431
Phosphorus	ppm	ASTM D5185m	780	711	712	643
Zinc	ppm	ASTM D5185m	870	999	1017	865
Sulfur	ppm	ASTM D5185m	2040	2682	2722	2299
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	11	12	4
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	7
Potassium	ppm	ASTM D5185m	>20	<u> </u>	A 751	6
Glycol	%	*ASTM D2982		A 0.12	▲ 0.12	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
	Abs/cm	*ASTM D7624	>20	12.0	11.7	10.9
Nitration			>30	23.4	23.3	21.1
	Abs/.1mm	*ASTM D7415	200			
			limit/base	current	history1	history2
Nitration Sulfation FLUID DEGRA Oxidation			limit/base			history2 17.9

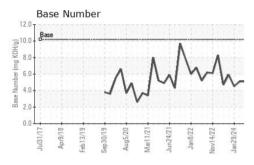


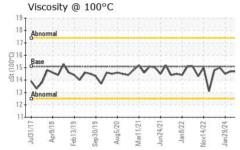
OIL ANALYSIS REPORT











VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.7	14.5
GRAPHS						

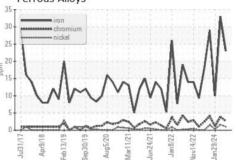
Ferrous Alloys

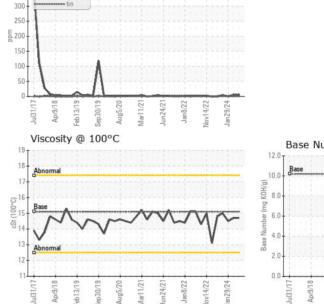
Non-ferrous Metals

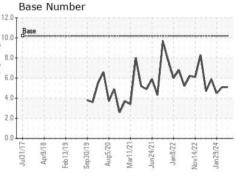
lead

400

350







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 030 - Conway Myrtle Beach Sample No. : GFL0101766 Received : 10 Apr 2024 3010 HWY 378 Lab Number : 06144088 Tested : 12 Apr 2024 Conway, SC US 29527 Unique Number : 10968896 Diagnosed : 15 Apr 2024 - Jonathan Hester Test Package : FLEET Contact: ARCILIO RUEZ Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. aruiz@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL030 [WUSCAR] 06144088 (Generated: 04/15/2024 09:19:35) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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