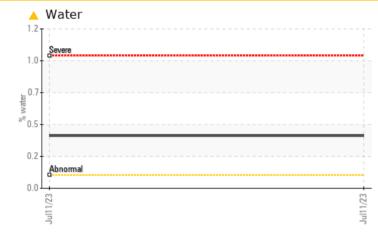


Machine Id 948006-205261

Component Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (--- LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. (Customer Sample Comment: Top Up Amount: 4 LTR)

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	NORMAL	
Water	%	ASTM D6304	>0.1	A 0.395			
ppm Water	ppm	ASTM D6304	>1000	A 3950			
Debris	scalar	*Visual	NONE	A MODER	NONE	NONE	

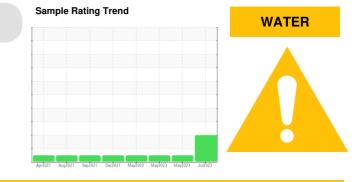
Customer Id: GFL883 Sample No.: GFL0071719 Lab Number: 05897899 Test Package: FLEET



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	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		
Check Water Access			?	We advise that you check for the source of water entry.		

HISTORICAL DIAGNOSIS



18 May 2023 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.



view report

01 May 2023 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.

04 May 2022 Diag: Don Baldridge





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.







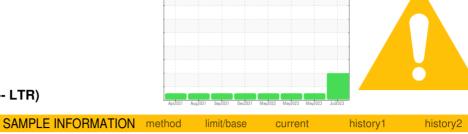
OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Machine Id 948006-205261

Component Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (--- LTR)



DIAGNOSIS

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. (Customer Sample Comment: Top Up Amount: 4 LTR)

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

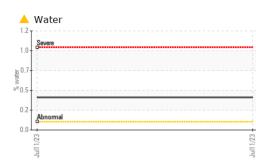
Fluid Condition

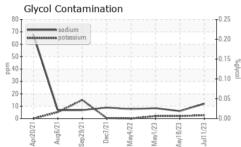
The BN result indicates that there is suitable alkalinity remaining in the oil.

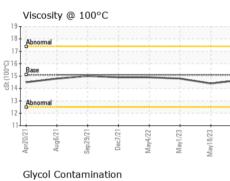
		methou	iiiiii/base	Current	Thistory I	Thistory 2
Sample Number		Client Info		GFL0071719	GFL0058494	GFL0058492
Sample Date		Client Info		11 Jul 2023	18 May 2023	01 May 2023
Machine Age	hrs	Client Info		14855	14437	14294
Oil Age	hrs	Client Info		600	1200	1200
Oil Changed		Client Info		Oil Added	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	10	8	15
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	0	2
Lead	ppm	ASTM D5185m	>30	<1	<1	0
Copper	ppm	ASTM D5185m	>35	1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
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	50	11	26	10
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	54	50	53
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	489	551	585
Calcium	ppm	ASTM D5185m	1510	1540	1645	1600
Phosphorus	ppm	ASTM D5185m	780	724	782	784
Zinc	ppm	ASTM D5185m	870	962	988	1067
Sulfur	ppm	ASTM D5185m	2040	2796	2817	2822
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	4	4
Sodium	ppm	ASTM D5185m		12	6	8
Potassium	ppm	ASTM D5185m	>20	3	2	2
Water	%	ASTM D6304	>0.1	A 0.395		
ppm Water	ppm	ASTM D6304	>1000	A 3950		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.7	8.0	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	19.6	20.1
FLUID DEGRAD		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	16.4	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.1	7.8	4.3

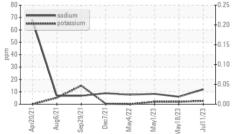


OIL ANALYSIS REPORT

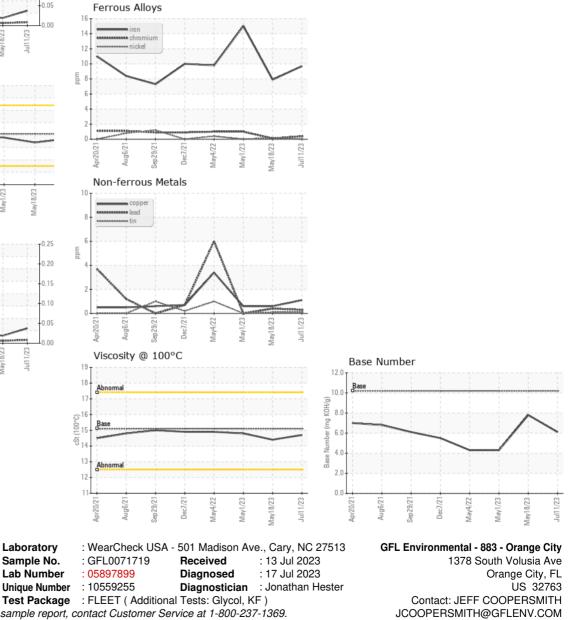








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	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	14.4	14.8
GRAPHS						



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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.
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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F:

T: (386)503-8468