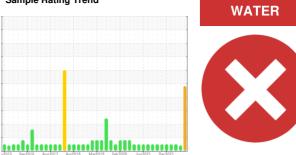


PROBLEM SUMMARY

Sample Rating Trend

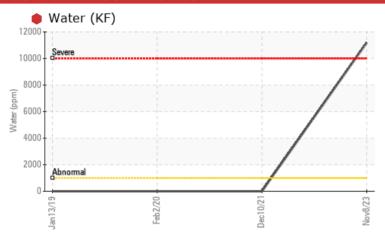


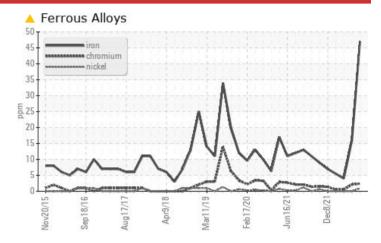
Machine Id 3630C Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for the source of water entry. 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. Please note that there was too much water present in the oil to perform a viscosity test.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL	NORMAL			
Iron	ppm	ASTM D5185m	>50	47	16	4			
Water	%	ASTM D6304	>0.1	1.12					
ppm Water	ppm	ASTM D6304	>1000	11200					
Appearance	scalar	*Visual	NORML	MILKY	NORML	NORML			
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	NEG			

Customer Id: GFL005 Sample No.: GFL0092729 Lab Number: 06009026 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 ihester@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			?	We recommend that you drain the oil from the component if this has not already been done.			
Resample			?	We recommend an early resample to monitor this condition.			
Alert			?	Please note that there was too much water present in the oil to perform a viscosity test.			
Check Water Access			?	We advise that you check for the source of water entry.			

HISTORICAL DIAGNOSIS

24 Jan 2023 Diag: Sean Felton

VIS DEBRIS



We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present 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.



07 Jun 2022 Diag: Don Baldridge

NORMAL



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.



10 Dec 2021 Diag: Don Baldridge

NORMAL



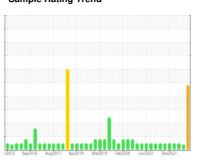
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 3630C Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. 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. Please note that there was too much water present in the oil to perform a viscosity test.

Wear

The iron level is abnormal.

Contamination

Appearance is unacceptable There is a high concentration of water present in the oil.

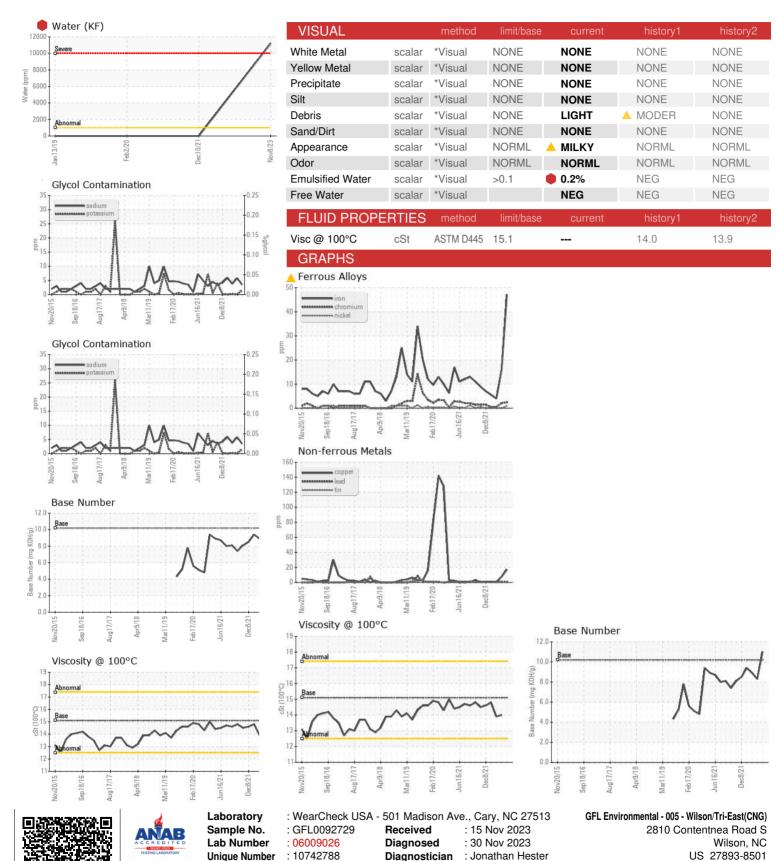
Fluid Condition

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.

(GAL)		v2015 Sep20	16 Aug2017 Apr2018	Mar2019 Feb2020 Jun2021 I	00c2021	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092729	GFL0072391	GFL0048879
Sample Date		Client Info		08 Nov 2023	24 Jan 2023	07 Jun 2022
Machine Age	hrs	Client Info		24885	24885	0
Oil Age	hrs	Client Info		198	24452	137
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4 7	16	4
Chromium	ppm	ASTM D5185m	>4	2	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	2	3	1
Lead	ppm	ASTM D5185m	>30	<1	<1	<1
Copper	ppm	ASTM D5185m	>35	17	8	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	51	39	72
Barium	ppm	ASTM D5185m	5	7	0	0
Molybdenum	ppm	ASTM D5185m	50	52	47	51
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	539	528	589
Calcium	ppm	ASTM D5185m	1510	1369	1420	1497
Phosphorus	ppm	ASTM D5185m	780	814	727	783
Zinc	ppm	ASTM D5185m	870	881	860	940
Sulfur	ppm	ASTM D5185m	2040	2770	2803	2681
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	29	10	11
Sodium	ppm	ASTM D5185m		4	6	4
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>0.1	1.12		
ppm Water	ppm	ASTM D6304	>1000	11200		
Glycol	%	*ASTM D2982		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	8.1	6.7	6.3
Sulfation	Abs/.1mm	*ASTM D7415		15.1	18.3	18.5
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	14.5	14.8
Base Number (BN)	mg KOH/g	ASTM D2896		11.0	8.3	8.9



OIL ANALYSIS REPORT



Test Package : FLEET (Additional Tests: Glycol, KF)

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

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.

Contact: SPENCER LIGGON

spencer.liggon@gflenv.com

T: (800)207-6618

F: