

PROBLEM SUMMARY

Sample Rating Trend

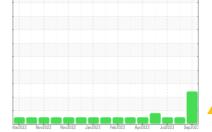
WEAR

731119

Component

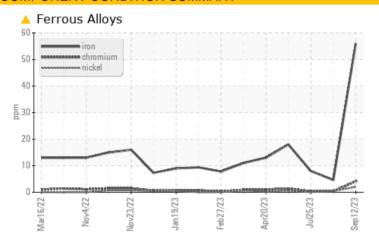
Natural Gas Engine

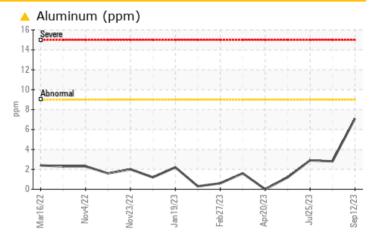
PETRO CANADA DURON GEO LD 15W40 (--- GAL)





COMPONENT CONDITION SUMMARY





RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status				ABNORMAL	NORMAL	NORMAL				
Iron	ppm	ASTM D5185m	>50	△ 56	5	8				
Chromium	ppm	ASTM D5185m	>4	<u> </u>	<1	<1				
Aluminum	ppm	ASTM D5185m	>9	<u>^</u> 7	3	3				

Customer Id: GFL836 Sample No.: GFL0090731 Lab Number: 05951043 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

30 Aug 2023 Diag: Wes Davis

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.



25 Jul 2023 Diag: Wes Davis

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.



06 Jun 2023 Diag: Sean Felton

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. An increase in the lead level is noted. All other 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



731119

Component **Natural Gas Engine**

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Piston, ring and cylinder wear is indicated.

Contamination

There is no indication of any contamination in the oil.

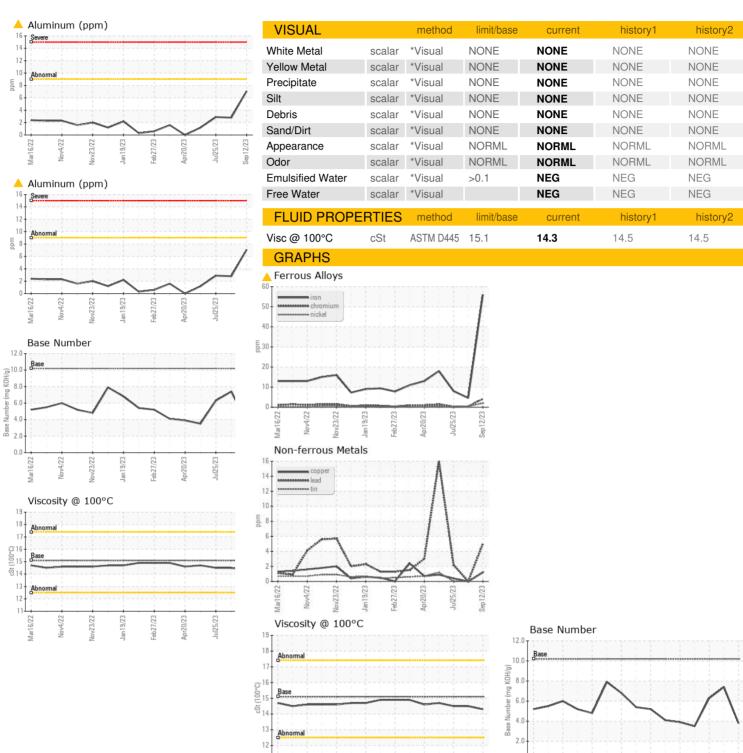
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(GAL)		vlar2022 No	2022 Nov2022 Jan20	23 Feb2023 Apr2023 Jul20	23 Sep2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090731	GFL0090690	GFL0087228
Sample Date		Client Info		12 Sep 2023	30 Aug 2023	25 Jul 2023
Machine Age	hrs	Client Info		6305	6237	6038
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	△ 56	5	8
Chromium	ppm	ASTM D5185m	>4	<u></u> 4	<1	<1
Nickel	ppm	ASTM D5185m	>2	2	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<u>^</u> 7	3	3
Lead	ppm	ASTM D5185m	>30	5	0	2
Copper	ppm	ASTM D5185m	>35	1	0	<1
Tin	ppm	ASTM D5185m	>4	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	5	84	17
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	61	59	51
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	560	601	630	569
Calcium	ppm	ASTM D5185m	1510	1756	1602	1544
Phosphorus	ppm	ASTM D5185m	780	713	804	727
Zinc	ppm	ASTM D5185m	870	984	994	910
Sulfur	ppm	ASTM D5185m	2040	2804	3116	2615
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	21	6	4
Sodium	ppm	ASTM D5185m		10	4	5
Potassium	ppm	ASTM D5185m	>20	2	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.0	6.6	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	18.9	19.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	15.2	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.8	7.4	6.3
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OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: 05951043 : 10647002 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Sep 2023 : GFL0090731

Diagnosed : 19 Sep 2023 : Jonathan Hester Diagnostician

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Robert Hart rhart@gflenv.com T: (580)461-1509

* - 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)

Sep12/23

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