

PROBLEM SUMMARY

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

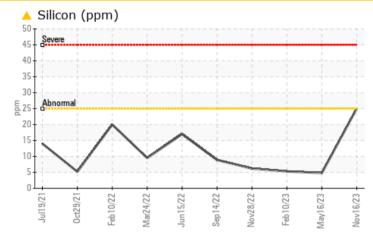
Sample Rating Trend DIRT

COMPONENT CONDITION SUMMARY

Machine Id

Component

Fluid



945001-152555

Natural Gas Engine

RECOMMENDATION

The oil 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	NORMAL	NORMAL					
Silicon	ppm	ASTM D5185m	>25	<u> </u>	5	5					

Customer Id: GFL146 Sample No.: GFL0073226 Lab Number: 06011956 Test Package: FLEET



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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

16 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.

10 Feb 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.

28 Nov 2022 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



view report

Report Id: GFL146 [WUSCAR] 06011956 (Generated: 11/21/2023 14:47:32) Rev: 1



OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 945001-152555 Component

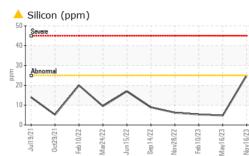
Natural Gas Engine Fluid

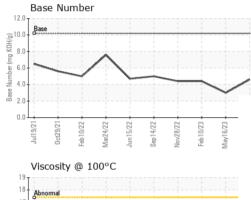
PETRO CANADA DURON GEO LD 15W40 (--- LTR)

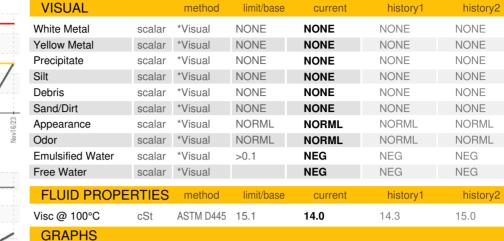
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0073226	GFL0073230	GFL0040926
e oil change at the time of sampling has been	Sample Date		Client Info		16 Nov 2023	16 May 2023	10 Feb 2023
ted. No corrective action is recommended at this	Machine Age	hrs	Client Info		20389	19391	18792
ne. Resample at the next service interval to onitor.	Oil Age	hrs	Client Info		19391	650	650
	Oil Changed		Client Info		Changed	Changed	Changed
ear	Sample Status				ABNORMAL	NORMAL	NORMAL
component wear rates are normal.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Contamination emental level of silicon (Si) above normal	Water		WC Method		NEG	NEG	NEG
dicating ingress of seal material.	WEAR METAL	S	method	limit/base	current	history1	history2
uid Condition							
e BN result indicates that there is suitable	Iron	ppm	ASTM D5185m		19	20	16
alinity remaining in the oil. The condition of the is acceptable for the time in service.	Chromium	ppm	ASTM D5185m		2	3	2
	Nickel	ppm	ASTM D5185m		<1	1	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	4	5
	Lead	ppm	ASTM D5185m		7	8	3
	Copper	ppm	ASTM D5185m	>150	4	8	10
	Tin	ppm	ASTM D5185m	>4	4	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	50	19	4	13
	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	50	60	75	72
	Manganese	ppm	ASTM D5185m	0	<1	1	<1
	Magnesium	ppm	ASTM D5185m		720	546	586
	Calcium	ppm	ASTM D5185m	1510	1372	1620	1517
	Phosphorus	ppm	ASTM D5185m		685	713	699
							942
	Zinc	ppm	ASTM D5185m	870	959	971	
	Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m		959 2439	971 2432	2473
		ppm					
	Sulfur	ppm	ASTM D5185m	2040 limit/base	2439	2432	2473
	Sulfur CONTAMINAN	ppm ITS	ASTM D5185m method	2040 limit/base	2439 current	2432 history1	2473 history2
	Sulfur CONTAMINAN Silicon	ppm ITS ppm	ASTM D5185m method ASTM D5185m	2040 limit/base >25	2439 current ▲ 25	2432 history1 5	2473 history2 5
	Sulfur CONTAMINAN Silicon Sodium	ppm ITS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	2040 limit/base >25	2439 current ▲ 25 3	2432 history1 5 12	2473 history2 5 3
	Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ITS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	2040 limit/base >25 >20	2439 current ▲ 25 3 <1	2432 history1 5 12 3	2473 history2 5 3 3
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ITS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	2040 limit/base >25 >20 limit/base	2439 <u>current</u> ▲ 25 3 <1 <u>current</u> 0	2432 history1 5 12 3 history1 0	2473 history2 5 3 3 history2 0.1
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ITS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	2040 limit/base >25 >20 limit/base	2439 <u>current</u> ▲ 25 3 <1 <u>current</u>	2432 history1 5 12 3 history1	2473 history2 5 3 3 history2
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ITS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7415	2040 limit/base >25 >20 limit/base	2439 current ▲ 25 3 <1 current 0 11.6	2432 history1 5 12 3 history1 0 12.7	2473 history2 5 3 3 history2 0.1 11.4
	Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ITS ppm ppm ppm ppm % Abs/cm Abs/1mm	ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7415	2040 limit/base >25 >20 limit/base >20 >30 limit/base	2439 current 25 3 <1 current 0 11.6 22.0	2432 history1 5 12 3 history1 0 12.7 26.0	2473 history2 5 3 3 history2 0.1 11.4 23.6



OIL ANALYSIS REPORT



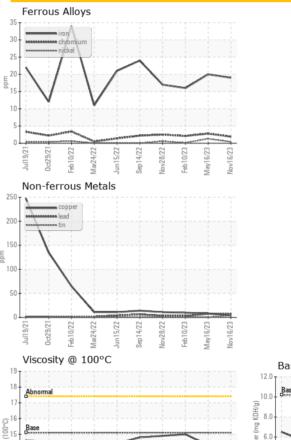


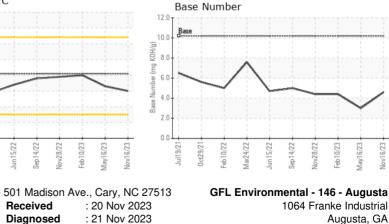


Nov16/23 -

: Sean Felton

() 16 () 15 15 14 Base 13 Abno 12 -eb10/23 0ct29/21 ah10/22 ar74/77 in15/22 en14/77 /lav16/23







Test Package : FLEET Certificate L2367 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)

Feb10/22 Mar24/22

: WearCheck USA -

: GFL0073226

:06011956

: 10751100

Jun 15/22 Sep14/22 Vov28/22 Feb10/23 Mav16/23

Received

Diagnosed

Diagnostician

Report Id: GFL146 [WUSCAR] 06011956 (Generated: 11/21/2023 14:47:33) Rev: 1

Laboratory

Sample No.

Lab Number

Unique Number

5 14

13 Abnorm

12 11

Jul19/21

Contact: JEFFERY WASHINGTON

jeff.washington@gflenv.com

US 30909

T:

F: