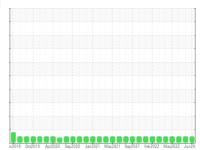


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10892C Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

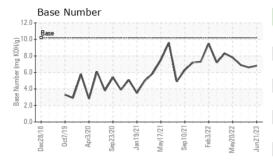
Fluid Condition

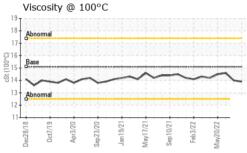
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

TT GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084243	GFL0069708	GFL0050830
Sample Date		Client Info		21 Jun 2023	19 May 2023	17 Aug 2022
Machine Age	hrs	Client Info		4004	3763	9961
Oil Age	hrs	Client Info		4004	3763	786
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	20	8	9
Chromium	ppm	ASTM D5185m	>4	2	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	0	2
Lead	ppm	ASTM D5185m	>30	<1	<1	<1
Copper	ppm	ASTM D5185m	>35	1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
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	28	17	21
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	88	59	50
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magagaius						
•	ppm	ASTM D5185m	560	859	648	523
Calcium	ppm	ASTM D5185m	1510	2135	1637	1555
Calcium Phosphorus		ASTM D5185m ASTM D5185m	1510 780	2135 1173	1637 827	1555 757
Magnesium Calcium Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1510 780 870	2135 1173 1407	1637 827 1062	1555 757 919
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	1510 780 870 2040	2135 1173	1637 827	1555 757
Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1510 780 870	2135 1173 1407	1637 827 1062	1555 757 919
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1510 780 870 2040	2135 1173 1407 4096	1637 827 1062 2906	1555 757 919 2395 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1510 780 870 2040 limit/base	2135 1173 1407 4096	1637 827 1062 2906 history1	1555 757 919 2395 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1510 780 870 2040 limit/base	2135 1173 1407 4096 current	1637 827 1062 2906 history1	1555 757 919 2395 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1510 780 870 2040 limit/base >+100	2135 1173 1407 4096 current 11	1637 827 1062 2906 history1 5	1555 757 919 2395 history2 7
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	1510 780 870 2040 limit/base >+100 >20	2135 1173 1407 4096 current 11 4	1637 827 1062 2906 history1 5 4	1555 757 919 2395 history2 7 6
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1510 780 870 2040 limit/base >+100 >20	2135 1173 1407 4096 current 11 4 2	1637 827 1062 2906 history1 5 4 2	1555 757 919 2395 history2 7 6 0
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D5185m	1510 780 870 2040 limit/base >+100 >20 limit/base	2135 1173 1407 4096 current 11 4 2 current 0.1	1637 827 1062 2906 history1 5 4 2 history1	1555 757 919 2395 history2 7 6 0 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1510 780 870 2040 limit/base >+100 >20 limit/base	2135 1173 1407 4096 current 11 4 2 current 0.1 8.3	1637 827 1062 2906 history1 5 4 2 history1 0 9.3	1555 757 919 2395 history2 7 6 0 history2 0 10.5
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1510 780 870 2040 limit/base >+100 >20 limit/base >20 >30	2135 1173 1407 4096 current 11 4 2 current 0.1 8.3 20.1	1637 827 1062 2906 history1 5 4 2 history1 0 9.3 20.1	1555 757 919 2395 history2 7 6 0 history2 0 10.5 21.1



OIL ANALYSIS REPORT



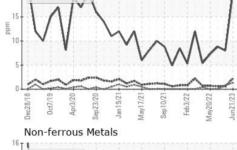


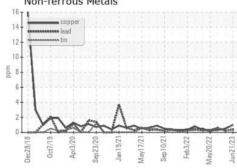
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

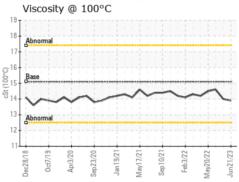
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	14.0	14.6	

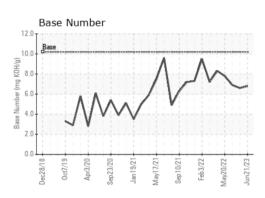
GRAPHS

Ferrous Alloys













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0084243 : 05882531

: 10533014

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Jun 2023 Diagnosed : 28 Jun 2023

Diagnostician : Don Baldridge

GFL Environmental - 031 - Greenville/Spartanburg

1635 Antioch Church Rd Piedmont, SC US 29673

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com

* - 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)

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