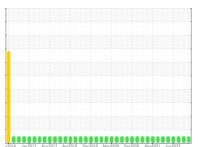


OIL ANALYSIS REPORT

Sample Rating Trend







3693C AUTOCAR ISL

Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (42 QTS)

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.

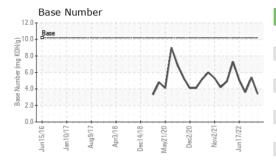
Fluid Condition

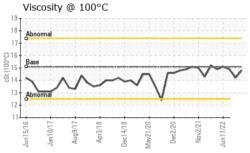
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

n2016 Jan2017 Aug2017 Apr2018 Dec2018 May2020 Dec2020 Nov2021 Jun2022						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094696	GFL0056769	GFL0056511
Sample Date		Client Info		07 Oct 2023	10 May 2023	02 Nov 2022
Machine Age	hrs	Client Info		19491	18263	17186
Oil Age	hrs	Client Info		0	1090	1226
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	30	21	19
Chromium	ppm	ASTM D5185m	>4	4	5	3
Nickel	ppm	ASTM D5185m	>2	<1	2	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	5	2
Lead	ppm	ASTM D5185m	>30	4	5	9
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	2	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	5	8	7
Barium	ppm	ASTM D5185m	5	<1	0	2
Molybdenum	ppm	ASTM D5185m	50	58	59	59
Manganese		AOTAL DELOE				
· ·	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m	560	564	658	579
Magnesium Calcium		ASTM D5185m ASTM D5185m	560 1510	564 1617	658 1819	579 1789
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780	564 1617 737	658 1819 891	579 1789 769
Magnesium Calcium Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780 870	564 1617 737 995	658 1819 891 1130	579 1789 769 1014
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780	564 1617 737	658 1819 891	579 1789 769 1014 2673
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780 870	564 1617 737 995	658 1819 891 1130	579 1789 769 1014
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	560 1510 780 870 2040	564 1617 737 995 2548 current	658 1819 891 1130 3150 history1	579 1789 769 1014 2673
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	560 1510 780 870 2040 limit/base	564 1617 737 995 2548 current	658 1819 891 1130 3150 history1 6	579 1789 769 1014 2673 history2 5
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	560 1510 780 870 2040 limit/base	564 1617 737 995 2548 current	658 1819 891 1130 3150 history1	579 1789 769 1014 2673 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m METHOD ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780 870 2040 limit/base >+100	564 1617 737 995 2548 current 21	658 1819 891 1130 3150 history1 6	579 1789 769 1014 2673 history2 5
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780 870 2040 limit/base >+100	564 1617 737 995 2548 current 21 12 3	658 1819 891 1130 3150 history1 6 8 3	579 1789 769 1014 2673 history2 5 7
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm	ASTM D5185m	560 1510 780 870 2040 limit/base >+100	564 1617 737 995 2548 current 21 12 3	658 1819 891 1130 3150 history1 6 8 3	579 1789 769 1014 2673 history2 5 7 2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *ASTM D5185m	560 1510 780 870 2040 limit/base >+100 >20	564 1617 737 995 2548 current 21 12 3 current	658 1819 891 1130 3150 history1 6 8 3 history1 0.1	579 1789 769 1014 2673 history2 5 7 2 history2 0.1
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	560 1510 780 870 2040 limit/base >+100 >20 limit/base	564 1617 737 995 2548 current 21 12 3 current 0 10.9	658 1819 891 1130 3150 history1 6 8 3 history1 0.1 13.6	579 1789 769 1014 2673 history2 5 7 2 history2 0.1 13.5
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	560 1510 780 870 2040 limit/base >+100 >20 limit/base >20 >30	564 1617 737 995 2548 current 21 12 3 current 0 10.9 23.5	658 1819 891 1130 3150 history1 6 8 3 history1 0.1 13.6 24.6	579 1789 769 1014 2673 history2 5 7 2 history2 0.1 13.5 29.2



OIL ANALYSIS REPORT

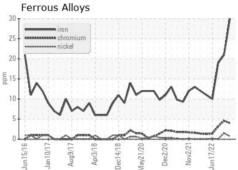


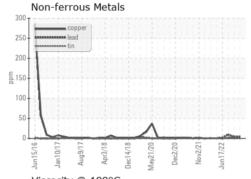


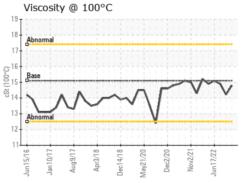
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

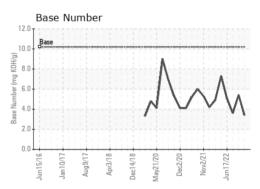
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.22	14.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0094696 : 05973850

: 10685800

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Oct 2023 Diagnosed : 11 Oct 2023

Diagnostician : Don Baldridge

3741 Conquest Drive Garner, NC US 27529

GFL Environmental - 001 - Raleigh(CNG)

Contact: Craig Johnson craig.johnson@gflenv.com T: (919)662-7100

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)

F: (919)662-7130