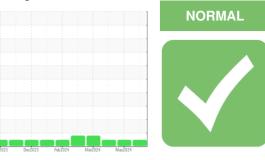


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 9340 Component Natural Fluid PETRO (

934024 Component Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (--- 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.

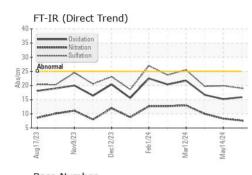
Fluid Condition

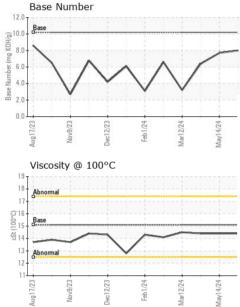
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMFLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120203	GFL0122804	GFL0117200
Sample Date		Client Info		04 Jun 2024	14 May 2024	02 Apr 2024
Machine Age	hrs	Client Info		1780	1645	1337
Oil Age	hrs	Client Info		0	8257	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	8	6	8
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	1
Titanium	ppm	ASTM D5185m	>5	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	3
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m	>150	2	2	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
7.88811120		method	initiabacco	canon		
Boron	ppm	ASTM D5185m	50	32	26	17
Boron Barium	ppm ppm				, , , , , , , , , , , , , , , , , , ,	
Boron		ASTM D5185m	50	32 0 54	26	17
Boron Barium	ppm	ASTM D5185m ASTM D5185m	50 5 50	32 0	26 0	17 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50	32 0 54	26 0 51	17 0 52
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0	32 0 54 <1	26 0 51 <1	17 0 52 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560	32 0 54 <1 579	26 0 51 <1 577	17 0 52 <1 580
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510	32 0 54 <1 579 1618	26 0 51 <1 577 1570	17 0 52 <1 580 1647
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780	32 0 54 <1 579 1618 853	26 0 51 <1 577 1570 834	17 0 52 <1 580 1647 842
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870	32 0 54 <1 579 1618 853 967	26 0 51 <1 577 1570 834 965	17 0 52 <1 580 1647 842 1035
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040	32 0 54 <1 579 1618 853 967 2602	26 0 51 <1 577 1570 834 965 2740	17 0 52 <1 580 1647 842 1035 3058
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040	32 0 54 <1 579 1618 853 967 2602 current	26 0 51 <1 577 1570 834 965 2740 history1	17 0 52 <1 580 1647 842 1035 3058 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	50 50 50 560 1510 780 870 2040 limit/base >25	32 0 54 <1 579 1618 853 967 2602 current 6	26 0 51 <1 577 1570 834 965 2740 history1 4	17 0 52 <1 580 1647 842 1035 3058 history2 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 50 50 560 1510 780 870 2040 limit/base >25	32 0 54 <1 579 1618 853 967 2602 current 6 4	26 0 51 <1 577 1570 834 965 2740 history1 4 5	17 0 52 <1 580 1647 842 1035 3058 history2 3 5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	50 50 00 560 1510 780 870 2040 limit/base >25	32 0 54 <1 579 1618 853 967 2602 current 6 4 12	26 0 51 <1 577 1570 834 965 2740 history1 4 5 11	17 0 52 <1 580 1647 842 1035 3058 history2 3 5 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040 2040 2040 2040 225 >25 >20	32 0 54 <1 579 1618 853 967 2602 current 6 4 12 current	26 0 51 <1 577 1570 834 965 2740 history1 4 5 11 history1	17 0 52 <1 580 1647 842 1035 3058 history2 3 5 2 2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040 2040 2040 2040 225 >25 >20	32 0 54 <1 579 1618 853 967 2602 current 6 4 12 current 0	26 0 51 <1 577 1570 834 965 2740 history1 4 5 11 4 5 11 0.1	17 0 52 <1 580 1647 842 1035 3058 history2 3 5 2 2 history2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040 limit/base >25 >20 limit/base	32 0 54 <1 579 1618 853 967 2602 <i>current</i> 6 4 12 <i>current</i> 0 7.6	26 0 51 <1 577 1570 834 965 2740 history1 4 5 11 4 5 11 0.1 8.3	17 0 52 <1 580 1647 842 1035 3058 history2 3 5 2 2 history2 0 10.0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	50 50 50 150 1510 780 870 2040 imit/base >25 imit/base >20	32 0 54 <1 579 1618 853 967 2602 <u>current</u> 6 4 12 <u>current</u> 0 7.6 19.0	26 0 51 <1 577 1570 834 965 2740 history1 4 5 11 4 5 11 0.1 8.3 19.9	17 0 52 <1 580 1647 842 1035 3058 history2 3 5 2 history2 0 10.0 19.7



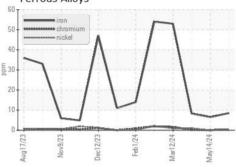
OIL ANALYSIS REPORT

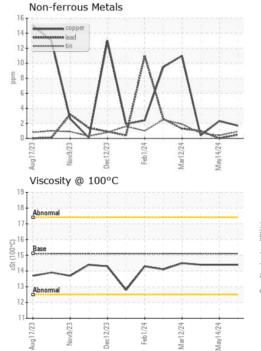


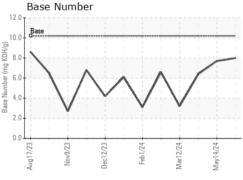


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.4	14.4
GRAPHS						

Ferrous Alloys







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 836 - Kansas City Hauling Sample No. : GFL0120203 Received : 06 Jun 2024 7801 East Truman Road Lab Number : 06202317 Tested : 10 Jun 2024 Kansas City, MO Unique Number : 11069778 Diagnosed : 10 Jun 2024 - Wes Davis US 64126 Test Package : FLEET Contact: Loyce Stewart Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. loyce.stewart@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F:

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