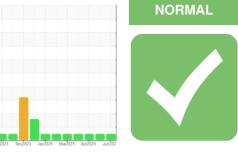


OIL ANALYSIS REPORT

Sample Rating Trend





934021 Component Natural Gas Engine Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Machine Id

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

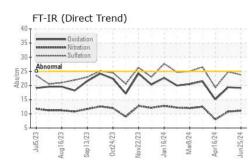
Fluid Condition

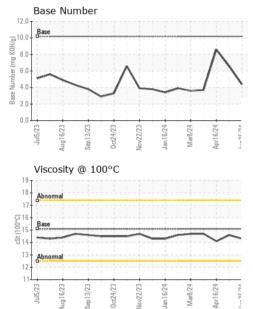
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124049	GFL0120183	GFL0117182
Sample Date		Client Info		25 Jun 2024	21 May 2024	16 Apr 2024
Machine Age	hrs	Client Info		2437	2261	2183
Oil Age	hrs	Client Info		0	1200	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	16	35	9
Chromium	ppm	ASTM D5185m	>5	2	2	<1
Nickel	ppm	ASTM D5185m	>4	0	2	0
Titanium	ppm	ASTM D5185m	>5	<1	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	10	2
Lead	ppm	ASTM D5185m	>40	2	16	2
Copper	ppm	ASTM D5185m	>150	2	5	<1
Tin	ppm	ASTM D5185m	>4	0	3	1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	9	21	8
Barium	ppm	ASTM D5185m	5	0	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	5 50	0 64	0 63	0 53
			50	-		
Molybdenum	ppm	ASTM D5185m	50	64	63	53
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m	50 0	64 <1	63 3	53 <1
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 0 560	64 <1 650	63 3 750	53 <1 567
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 560 1510	64 <1 650 2104	63 3 750 1938	53 <1 567 1751
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 560 1510 780	64 <1 650 2104 903	63 3 750 1938 981	53 <1 567 1751 791
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	50 0 560 1510 780 870	64 <1 650 2104 903 1198	63 3 750 1938 981 1202	53 <1 567 1751 791 985
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	50 0 560 1510 780 870 2040 limit/base	64 <1 650 2104 903 1198 3249	63 3 750 1938 981 1202 3156	53 <1 567 1751 791 985 2998
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 560 1510 780 870 2040 limit/base	64 <1 650 2104 903 1198 3249 current	63 3 750 1938 981 1202 3156 history1	53 <1 567 1751 791 985 2998 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 560 1510 780 870 2040 limit/base >25	64 <1 650 2104 903 1198 3249 current 6	63 3 750 1938 981 1202 3156 history1 15	53 <1 567 1751 791 985 2998 history2 4
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 560 1510 780 870 2040 limit/base >25	64 <1 650 2104 903 1198 3249 current 6 9	63 3 750 1938 981 1202 3156 history1 15 9	53 <1 567 1751 791 985 2998 history2 4 6
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	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	50 0 560 1510 780 870 2040 limit/base >25	64 <1 650 2104 903 1198 3249 current 6 9 <1	63 3 750 1938 981 1202 3156 history1 15 9 6	53 <1 567 1751 791 985 2998 history2 4 6 0
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 ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 560 1510 780 870 2040 limit/base >25 >20	64 <1 650 2104 903 1198 3249 current 6 9 <1 current	63 3 750 1938 981 1202 3156 history1 15 9 6 history1	53 <1 567 1751 791 985 2998 history2 4 6 0 Nistory2
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 0 560 1510 780 870 2040 limit/base >25 >20	64 <1 650 2104 903 1198 3249 current 6 9 <1 current 0	63 3 750 1938 981 1202 3156 history1 15 9 6 history1 0.1	53 <1 567 1751 791 985 2998 history2 4 6 0 history2 0.4
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 0 560 1510 780 870 2040 limit/base >25 -20 limit/base	64 <1 650 2104 903 1198 3249 current 6 9 <1 current 0 11.1	63 3 750 1938 981 1202 3156 history1 15 9 6 history1 0.1 0.1 10.8	53 <1 567 1751 791 985 2998 history2 4 6 0 0 history2 0.4 8.0
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 D51854 *ASTM D7844 *ASTM D7844	50 0 560 1510 780 870 2040 Iimit/base >25 >20 Iimit/base >20	64 <1 650 2104 903 1198 3249 current 6 9 <1 current 0 11.1 23.8	63 3 750 1938 981 1202 3156 history1 15 9 6 history1 0.1 10.8 24.8	53 <1 567 1751 791 985 2998 history2 4 6 0 history2 0.4 8.0 19.3



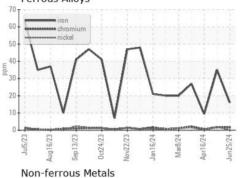
OIL ANALYSIS REPORT

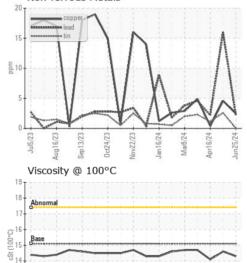


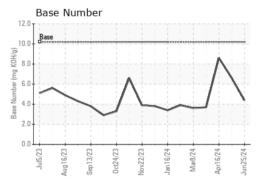


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.3	14.6	14.1
GRAPHS						

Ferrous Alloys







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 836 - Kansas City Hauling Sample No. : GFL0124049 Received : 28 Jun 2024 7801 East Truman Road Lab Number : 06223206 Tested : 28 Jun 2024 Kansas City, MO Unique Number : 11101403 Diagnosed : 28 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:

0ct24/23

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

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Jul5/23 Aug16/23 Sep 13/23

Contact/Location: GFL823,834,836,837,840 - Loyce Stewart - GFL836

Jun25/24

16/24

Aar8/74

an16/74