

OIL ANALYSIS REPORT

Sample Rating Trend



934022 Component

Machine Id

Natural Gas Engine

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.

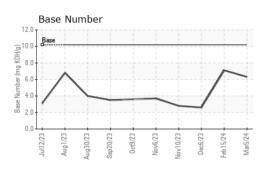
Fluid Condition

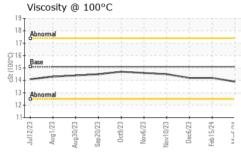
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Date Client Info 05 Mar 2024 15 Feb 2024 06 Dec 2023 Machine Age hrs Client Info 1883 1749 1417 Oil Age hrs Client Info 1771 1305 0 Oil Changed Client Info NA Not Changd Not Changd ABNORMAL Sample Status Client Info NA Not Changd ABNORMAL Not Changd CONTAMINATION method imit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM 05185m >5 0 <10 >5 Nickel ppm ASTM 05185m >5 0 <11 <1 2 Iranium ppm ASTM 05185m >25 6 4 13 14 Gopper ppm ASTM 05185m >150 1 <t< th=""><th></th><th>IATION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>		IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 1883 1749 1417 Oil Age hrs Client Info 1771 1305 0 Oil Changed Client Info N/A Not Changd Not Changd Sample Status Imit/base current Nistory1 Nistory2 Water WC Method >0.1 NEG NEG Wear WC Method >0.1 NEG Neg Vear MSTM 05165m >5 0 0 >9 Nickel ppm ASTM 05165m >5 0 0 5 Silver ppm ASTM 05165m >5 0 0 0 Silver ppm ASTM 05165m >5 0 0 0 Auminum ppm ASTM 05165m >4 13 1 2 Tin ppm ASTM 05165m >4 1 0 1 Vanadium ppm ASTM 05165m 0 0 0 <t< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>GFL0114107</th><th>GFL0108034</th><th>GFL0099912</th></t<>	Sample Number		Client Info		GFL0114107	GFL0108034	GFL0099912
Oil Age hrs. Client Info 1771 1305 0 Oil Changed Client Info N/A Not Changd Not Changd Sample Status Imit/base current history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >5 0 0 > 9 Nickel ppm ASTM D5185m >5 0 <11 <1 <1 Silver ppm ASTM D5185m >5 0 <11 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 S10 S10	Sample Date		Client Info		05 Mar 2024	15 Feb 2024	06 Dec 2023
Oil Changed Sample Status Client Info N/A NORMAL Not Changd NORMAL Not Changd ABNORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 4 5 ▲ 101 Chromium ppm ASTM D5185m >5 0 0 ▲ 9 Nickel ppm ASTM D5185m >5 0 <1 <1 Silver ppm ASTM D5185m >25 6 4 13 Lead ppm ASTM D5185m >4 <1 0 <1 Copper ppm ASTM D5185m 50 33 66 5 Barium ppm ASTM D5185m 50 113 104 75 Magne	Machine Age	hrs	Client Info		1883	1749	1417
Sample Status NORMAL NORMAL NORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG Wear METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >50 4 5 101 Chromium ppm ASTM 05185m >5 0 <1 <1 Silver ppm ASTM 05185m >5 0 <1 <1 Aluminum ppm ASTM 05185m >5 0 <1 <1 Copper ppm ASTM 05185m >25 6 4 13 Lead ppm ASTM 05185m >4 0 0 11 Copper ppm ASTM 05185m 50 1 <1 2 Nondydoenum ppm ASTM 05185m 50 133 66 5	Oil Age	hrs	Client Info		1771	1305	0
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG Water WC Method >0.1 NEG NEG NEG Water ppm ASTM D5165m >5 0 0 ▲ Iron ppm ASTM D5165m >5 0 0 ▲ 9 Othromium ppm ASTM D5165m >5 0 <1 <1 <1 Nickel ppm ASTM D5165m >3 0 0 0 A Aluminum ppm ASTM D5165m >3 0 0 0 A Aluminum ppm ASTM D5165m >3 0 0 0 C Cadmium ppm ASTM D5165m >4 <1 0 <1 2 Tin ppm ASTM D5165m 0 0 0 0 C Cadmium ppm	Oil Changed		Client Info		N/A	Not Changd	Not Changd
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Nickel ppm ASTM D5185m >4 0 0 5 Titanium ppm ASTM D5185m >5 0 <1 <1 Silver ppm ASTM D5185m >5 0 0 0 Aluminum ppm ASTM D5185m >25 6 4 13 Lead ppm ASTM D5185m >25 6 4 13 Lead ppm ASTM D5185m >10 0 0 11 Copper ppm ASTM D5185m >150 1 <1 2 Tin ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m 50 33 66 5 Barium ppm ASTM D5185m 50 113 104 75 Magnesium ppm ASTM D5185m 50 113 104 75 Magnesium ppm ASTM D5185m 50 644 715	Iron	ppm	ASTM D5185m	>50	4	5	1 01
Titanium ppm ASTM D5185m >5 0 <1	Chromium	ppm	ASTM D5185m	>5	0	0	<u> </u>
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >25 6 4 13 Lead ppm ASTM D5185m >40 0 0 11 Copper ppm ASTM D5185m >150 1 <1 2 Tin ppm ASTM D5185m >4 <1 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 113 104 75 Barium ppm ASTM D5185m 50 113 104 75 Galacium ppm ASTM D5185m 50 644 715 627 Zinc ppm ASTM D5185m 780 672 776	Nickel	ppm	ASTM D5185m	>4	0	0	5
Aluminum ppm ASTM D5185m >25 6 4 13 Lead ppm ASTM D5185m >40 0 0 11 Copper ppm ASTM D5185m >150 1 <1 2 Tin ppm ASTM D5185m >4 <1 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 50 33 66 5 Boron ppm ASTM D5185m 50 113 104 75 Barium ppm ASTM D5185m 50 113 104 75 Magneseum ppm ASTM D5185m 50 113 104 75 Magnesium ppm ASTM D5185m 50 113 104 75 Calcium ppm ASTM D5185m 50 644 715 627 Calcium ppm ASTM D5185m 780 672	Titanium	ppm	ASTM D5185m	>5	0	<1	<1
Lead ppm ASTM D5185m >40 0 0 11 Copper ppm ASTM D5185m >150 1 <1	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m<>150 1 <1	Aluminum	ppm	ASTM D5185m	>25	6	4	13
Tin ppm ASTM D5185m >4 <1	Lead	ppm	ASTM D5185m	>40	0	0	11
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Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 33 66 5 Barium ppm ASTM D5185m 50 33 66 5 Barium ppm ASTM D5185m 50 113 104 75 Manganese ppm ASTM D5185m 50 113 104 75 Magnesium ppm ASTM D5185m 60 644 715 627 Calcium ppm ASTM D5185m 560 644 715 627 Calcium ppm ASTM D5185m 780 672 776 782 Zinc ppm ASTM D5185m 2040 3241 3456 2487 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20	Tin	ppm	ASTM D5185m	>4	<1	0	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 33 66 5 Barium ppm ASTM D5185m 50 0 0 0 Molybdenum ppm ASTM D5185m 50 113 104 75 Manganese ppm ASTM D5185m 50 644 715 627 Calcium ppm ASTM D5185m 560 644 715 627 Calcium ppm ASTM D5185m 780 672 776 782 Zinc ppm ASTM D5185m 780 672 776 782 Zinc ppm ASTM D5185m 2040 3241 3456 2487 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 6 5 Sodium ppm ASTM D5185m >20	Vanadium	ppm	ASTM D5185m		0	0	0
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Barium ppm ASTM D5185m 5 0 0 0 Molybdenum ppm ASTM D5185m 50 113 104 75 Manganese ppm ASTM D5185m 0 <1 <1 3 Magnesium ppm ASTM D5185m 560 644 715 627 Calcium ppm ASTM D5185m 560 672 776 782 Zinc ppm ASTM D5185m 780 672 776 782 Zinc ppm ASTM D5185m 700 787 909 1009 Sulfur ppm ASTM D5185m 2040 3241 3456 2487 CONTAMINANTS method imit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 3 3 INFRA-RED ppm ASTM D5185m >20 4 3 3 INFRA-RED method limit/base current<	ADDITIVES		method	limit/base	current	history1	history2
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Manganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	5	0	0	0
Magnesium ppm ASTM D5185m 560 644 715 627 Calcium ppm ASTM D5185m 1510 1239 1357 1808 Phosphorus ppm ASTM D5185m 780 672 776 782 Zinc ppm ASTM D5185m 870 787 909 1009 Sulfur ppm ASTM D5185m 2040 3241 3456 2487 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 6 ▲ 55 Sodium ppm ASTM D5185m >20 4 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 Q Q 0.11 13 Sulfation Abs/cm *ASTM D7624 >20 6.5 5.5 13.1 Sulfation Abs/.tmm *ASTM D7415 >30 21.6 21.6 28.4	Molybdenum	ppm		50	113	104	75
Calcium ppm ASTM D5185m 1510 1239 1357 1808 Phosphorus ppm ASTM D5185m 780 672 776 782 Zinc ppm ASTM D5185m 870 787 909 1009 Sulfur ppm ASTM D5185m 2040 3241 3456 2487 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 6 ▲ 55 Sodium ppm ASTM D5185m >25 8 6 ▲ 55 Sodium ppm ASTM D5185m >20 4 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0.1 1 Nitration Abs/cm *ASTM D7624 >20 6.5 5.5 13.1 Sulfation Abs/.tmm<*ASTM D7415 >30 21.6 21.6 28.4							
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Zinc ppm ASTM D5185m 870 787 909 1009 Sulfur ppm ASTM D5185m 2040 3241 3456 2487 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 6 ▲ 55 Sodium ppm ASTM D5185m >20 4 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0 0.1 Nitration Abs/cm *ASTM D7624 >20 6.5 5.5 13.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.6 21.6 28.4	Manganese Magnesium						
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Silicon ppm ASTM D5185m<>25 8 6 ▲ 55 Sodium ppm ASTM D5185m <1	Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780	644 1239 672	715 1357 776	627 1808 782
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INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844000.1NitrationAbs/cm*ASTM D7624>206.55.513.1SulfationAbs/.1mm*ASTM D7415>3021.621.628.4FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	560 1510 780 870 2040 limit/base	644 1239 672 787 3241 current	715 1357 776 909 3456 history1	627 1808 782 1009 2487 history2
Soot % % *ASTM D7844 0 0 0.1 Nitration Abs/cm *ASTM D7624 >20 6.5 5.5 13.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.6 28.4 FLUID DEGRADATION method limit/base current history1 history2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780 870 2040 limit/base	644 1239 672 787 3241 current 8	715 1357 776 909 3456 history1 6	627 1808 782 1009 2487 history2 ▲ 55
NitrationAbs/cm*ASTM D7624>206.55.513.1SulfationAbs/.1mm*ASTM D7415>3021.621.628.4FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780 870 2040 limit/base >25	644 1239 672 787 3241 current 8 <	715 1357 776 909 3456 history1 6 <1	627 1808 782 1009 2487 history2 ▲ 55 14
Sulfation Abs/.1mm *ASTM D7415 >30 21.6 21.6 28.4 FLUID DEGRADATION method limit/base current history1 history2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780 870 2040 limit/base >25 >20	644 1239 672 787 3241 current 8 <1 4	715 1357 776 909 3456 history1 6 <1 3	627 1808 782 1009 2487 history2 ▲ 55 14 3
FLUID DEGRADATION method limit/base current history1 history2	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780 870 2040 limit/base >25 >20	644 1239 672 787 3241 current 8 <1 4 current	715 1357 776 909 3456 history1 6 <1 3 history1	627 1808 782 1009 2487 history2 ▲ 55 14 3 history2
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	560 1510 780 870 2040 limit/base >25 >20 limit/base	644 1239 672 787 3241 current 8 <1 4 current 0	715 1357 776 909 3456 history1 6 <1 3 history1 0	627 1808 782 1009 2487 history2 ▲ 55 14 3 history2 0.1
	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm % Xbs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844	560 1510 780 870 2040 limit/base >25 >20 limit/base	644 1239 672 787 3241 current 8 <1 4 current 0 6.5	715 1357 776 909 3456 history1 6 <1 3 history1 0 5.5	627 1808 782 1009 2487 history2 ▲ 55 14 3 history2 0.1 13.1
Oxidation Abs/.1mm *ASTM D7414 >25 15.5 15.3 25.0	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	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 D7844 *ASTM D7844 *ASTM D7844	560 1510 780 870 2040 limit/base >25 20 limit/base >20 20	644 1239 672 787 3241 current 8 <1 4 current 0 6.5 21.6	715 1357 776 909 3456 history1 6 <1 3 history1 0 5.5 21.6	627 1808 782 1009 2487 ► 55 14 3 ► 55 14 3 ► 14 3 ► 14 3 ► 11 14 3 ► 11 14 3 ► 11 14 3 • 12 14 3 • 12 14 3 • 12 14 14 3 • 12 14 14 14 14 14 14 14 14 14 14 14 14 14
Base Number (BN) mg KOH/g ASTM D2896 10.2 6.3 7.1 2.6	Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm TS ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7415	560 1510 780 870 2040 Iimit/base >25 >20 Iimit/base >20 >30	644 1239 672 787 3241 current 8 <1 4 current 0 6.5 21.6 current	715 1357 776 909 3456 history1 6 <1 3 history1 0 5.5 21.6 history1	627 1808 782 1009 2487 ▲ 55 14 3 history2 0.1 13.1 28.4 history2

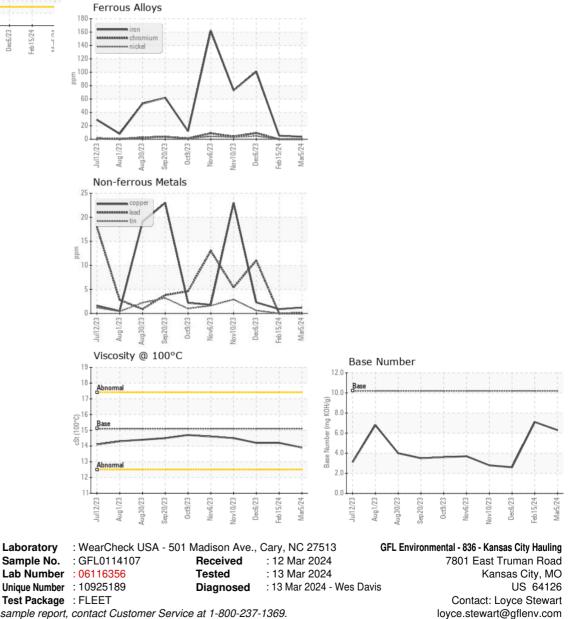


OIL ANALYSIS REPORT





VISUAL		method				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	13.9	14.2	14.2
GRAPHS						





 Certificate 12367
 Test Package
 : FLEET

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

Т:

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