

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

10735C AUTOCAR ACX

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (28 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.

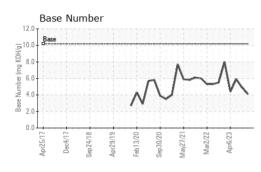


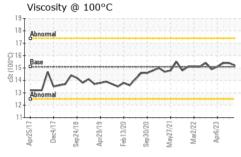


Sample NumberClient InfoGFL013153GFL0094760GFL0089283Sample DateClient Info15 Mar 202422 Nov 202324 Aug 2023Machine AgehrsClient Info879580897536Oil AgehrsClient Info000Gli ChangedLient InfoNot ChangdChangedChangedSample StatusIIntibasecurrentNoRMALNORMALRONTAMINATIONmethodJoilNEGNEGWaterWC MethodSol1SC2412ChromiumppmASTM 05185>241212ChromiumppmASTM 05185>241212ChromiumppmASTM 05185>30000AluminumppmASTM 05185>30000AluminumppmASTM 05185>308<1<2SilverppmASTM 05185>308<1<<1CopperppmASTM 05185506110<1ManduimppmASTM 0518550595659ADDITIVESmethodIntibaceCurrentHistory112ManduimppmASTM 0518550595659ADDITIVESmethodIntibaceCurrentHistory112ManduimppmASTM 0518550595659ADDITIVESmethodIntibaceCurrentHi	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
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Machine Age hrs Client Info 6795 8089 7536 Oil Age irrs Client Info 0 0 0 0 Oil Changed Client Info NORMAL A 1 1 1 1 1 1 1 1 1 1 1 1 1	Sample Date		Client Info		15 Mar 2024	22 Nov 2023	24 Aug 2023
Oil Age hrs Client Info Not Changed	Machine Age	hrs			8795		7536
Sample Status Imit is init is	Oil Age	hrs	Client Info		0	0	0
Sample Status Imit is init is	Oil Changed		Client Info		Not Changd	Changed	Changed
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Copper ppm ASTM D5185m >35 <1	Aluminum	ppm	ASTM D5185m	>9	4	3	4
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Phosphorus ppm ASTM D5185m 780 818 697 869 Zinc ppm ASTM D5185m 870 1075 1018 1122 Sulfur ppm ASTM D5185m 2040 2637 2608 3093 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 9 13 4 Sodium ppm ASTM D5185m >+100 9 7 6 Potassium ppm ASTM D5185m >20 1 2 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 13.0 11.2 10.1 Sulfation Abs/cm *ASTM D7624 >20 13.0 11.2 10.1 Sulfation Abs/.tm *ASTM D7624 >20 13.0 11.2 2.6 FLUID DEGRADATION method <th< th=""><th>Boron Barium Molybdenum</th><th>ppm ppm</th><th>ASTM D5185m ASTM D5185m ASTM D5185m</th><th>50 5 50</th><th>9 0 59 <1</th><th>12 0 56</th><th>18 0 59</th></th<>	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 5 50	9 0 59 <1	12 0 56	18 0 59
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Sulfation Abs/.1mm *ASTM D7415 >30 26.0 22.5 22.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.7 19.2 18.9	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 5 50 0 560 1510 780 870 2040 limit/base >+100	9 0 59 <1 634 1757 818 1075 2637 2637 current 9 9 1	12 0 56 0 569 1683 697 1018 2608 history1 13 7 2	18 0 59 <1 685 1888 869 1122 3093 history2 4 6 0
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	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 TS ppm ppm ppm	ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040 limit/base >+100 s 20 limit/base	9 0 59 <1 634 1757 818 1075 2637 <i>current</i> 9 9 1 201 1 <i>current</i> 0.1 13.0	12 0 56 0 569 1683 697 1018 2608 history1 13 7 2 history1 0 11.2	18 0 59 <1 685 1888 869 1122 3093 history2 4 6 0 history2 0 10.1
Base Number (BN) mg KOH/g ASTM D2896 10.2 4.1 4.9 5.9	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 trs ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	50 5 50 0 560 1510 780 870 2040 imit/base >2040 imit/base >20	9 0 59 <1 634 1757 818 1075 2637 <u>current</u> 9 9 9 1 1 <u>current</u> 0.1 13.0 26.0	12 0 56 0 569 1683 697 1018 2608 history1 13 7 2 2 history1 0 11.2 22.5	18 0 59 <1 685 1888 869 1122 3093 history2 4 6 0 0 history2 0 10.1 22.6
	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 TS ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7844	50 5 50 0 560 1510 780 870 2040 limit/base >20 limit/base >20 limit/base	9 0 59 <1 634 1757 818 1075 2637 <i>current</i> 9 9 9 1 <i>current</i> 0.1 13.0 26.0	12 0 56 0 569 1683 697 1018 2608 history1 13 7 2 history1 0 11.2 22.5 history1	18 0 59 <1 685 1888 869 1122 3093 history2 4 6 0 0 history2 0 10.1 22.6 history2



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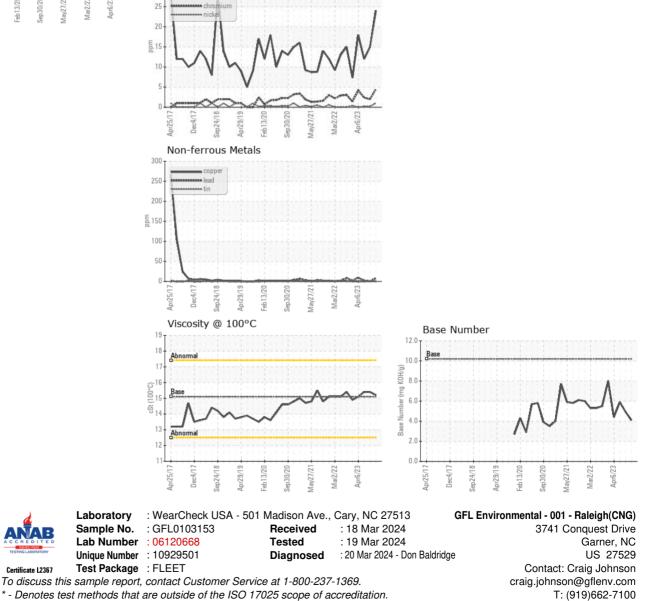




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	15.2	15.4	15.4
GRAPHS						

Ferrous Alloys

30



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

Certificate L2367

Submitted By: aka Keith - Ronald Gregory

F: (919)662-7130