

OIL ANALYSIS REPORT

Sample Rating Trend





Component Natural Gas Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil sample)

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

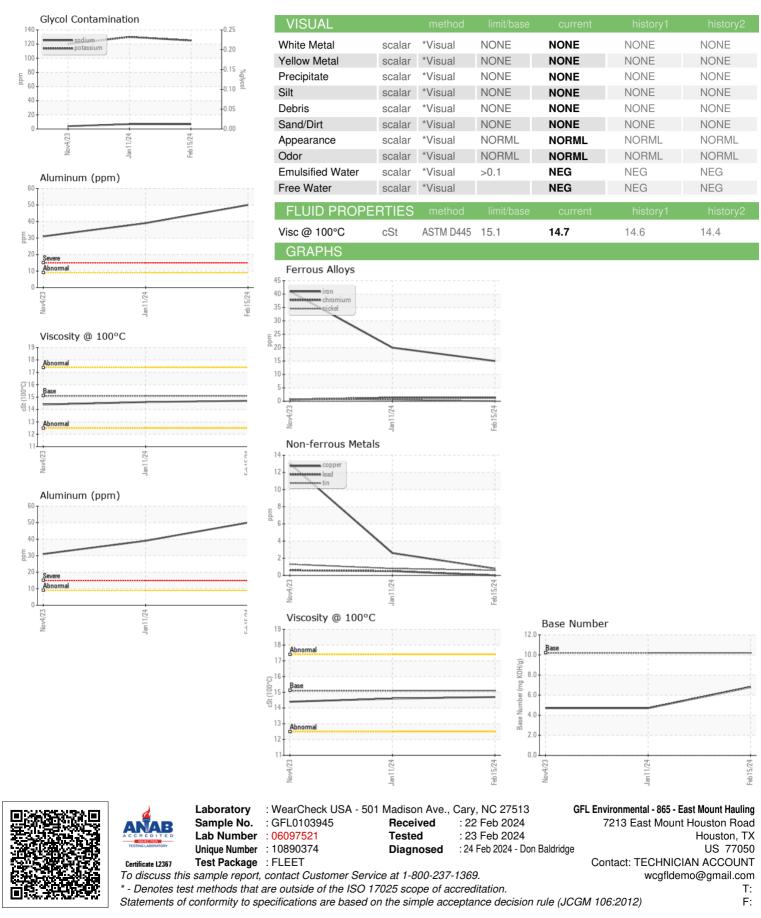
Fluid Condition

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

| SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info 15 Feb 2024 11 Jan 2024 04 Nov 2023 Machine Age hrs Client Info 1494 1184 605 Oil Age hrs Client Info 1494 579 605 Oil Age hrs Client Info 1494 NORMAL NORMAL NORMAL Sample Status Client Info 1494 NORMAL NORMAL NORMAL CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG Otromium ppm ASTM 05155m >50 15 20 41 Nickel ppm ASTM 05155m >30 0 0 0 Itrainum ppm ASTM 05155m >30 0 0 0 Silver ppm ASTM 05155m 30 0 0 0 | GAL) | | No | 2023 · | Jan2024 Feb202 | 24 | |
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| Sample Date Client Info 15 Feb 2024 11 Jan 2024 04 Nov 2023 Machine Age hrs Client Info 1494 1184 605 Oil Age hrs Client Info 1494 579 605 Oil Changed Client Info NoRMAL NoRMAL NORMAL NORMAL CONTAMINATION method imil/base current history1 history2 Water WC Method >0.1 NEG NEG NEG VEAR METALS method imil/base current history1 history2 Iron ppm ASTM D5185m >50 15 20 41 Chromium ppm ASTM D5185m >2 0 <1 <1 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 <1 <1 Cadmium ppm ASTM D5185m >4 <1 <1 1 | SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
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| Sulfation Abs/.1mm *ASTM D7415 >30 16.9 21.0 22.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.4 18.1 20.8 | Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm TS ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 0 560 1510 780 870 2040 limit/base >+100 | <1 567 1581 790 951 2475 <u>current</u> 6 7 125 | 2 618 1557 791 1018 2518 history1 9 7 130 | 786 1267 657 932 2247 history2 34 4 120 |
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| | Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration | ppm ppm ppm ppm ppm ppm TS ppm ppm ppm | ASTM D5185m ASTM D5185m | 0 560 1510 780 870 2040 limit/base >+100 >20 limit/base >20 | <1 567 1581 790 951 2475 current 6 7 125 current 0.1 7.1 | 2 618 1557 791 1018 2518 history1 9 7 130 history1 0 10.7 | 786 1267 657 932 2247 history2 34 4 120 history2 0 11.4 |
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| | Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN CONTAMINAN Solicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD | ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm % Abs/cm Abs/cm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7844 | 0 560 1510 780 870 2040 limit/base >+100 | <1 567 1581 790 951 2475 current 6 7 125 current 0.1 7.1 16.9 current | 2 618 1557 791 1018 2518 history1 9 7 130 history1 0 10.7 21.0 history1 | 786 1267 657 932 2247 history2 34 4 120 history2 0 11.4 22.6 history2 |



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