

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 433013

Component 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

Elevated aluminum (Al) 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. 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | Feb2024 | | |
|--|--|---|--|--|--|--|
| SAMPLE INFORM | /IATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0112407 | | |
| Sample Date | | Client Info | | 13 Feb 2024 | | |
| Machine Age | hrs | Client Info | | 19240 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINATI | ON | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | | |
| WEAR METALS | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185(m) | >50 | 41 | | |
| Chromium | ppm | ASTM D5185(m) | >4 | <1 | | |
| Nickel | ppm | ASTM D5185(m) | >2 | <1 | | |
| Titanium | ppm | ASTM D5185(m) | | 0 | | |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185(m) | >9 | 5 | | |
| Lead | ppm | ASTM D5185(m) | >30 | 3 | | |
| Copper | ppm | ASTM D5185(m) | >35 | 10 | | |
| Tin | ppm | ASTM D5185(m) | >4 | 1 | | |
| Antimony | ppm | ASTM D5185(m) | | 0 | | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | | |
| | | | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| ADDITIVES Boron | ppm | method ASTM D5185(m) | limit/base 50 | current 39 | history1 | history2 |
| | ppm ppm | | | | | , and the second se |
| Boron | | ASTM D5185(m) | 50 | 39 | | |
| Boron Barium | ppm | ASTM D5185(m) ASTM D5185(m) | 50 5 50 | 39 4 | | |
| Boron Barium Molybdenum | ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | 50 5 50 | 39 4 99 | | |
| Boron Barium Molybdenum Manganese | ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | 50 5 50 0 | 39 4 99 4 | | |
| Boron Barium Molybdenum Manganese Magnesium | ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | 50 5 50 0 560 | 39 4 99 4 639 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium | ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | 50 5 50 0 560 1510 | 39 4 99 4 639 1289 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | 50 5 50 0 560 1510 780 | 39 4 99 4 639 1289 695 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | 50 5 50 0 560 1510 780 870 | 39 4 99 4 639 1289 695 801 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | 50 5 50 0 560 1510 780 870 | 39 4 99 4 639 1289 695 801 2393 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | 50 5 50 0 560 1510 780 870 2040 | 39 4 99 4 639 1289 695 801 2393 <1 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN | ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | 50 50 50 560 1510 780 870 2040 iimit/base | 39 4 99 4 639 1289 695 801 2393 <1 2urrent | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon | ppm | ASTM D5185(m) ASTM D5185(m) | 50 50 50 560 1510 780 870 2040 iimit/base | 39 4 99 4 639 1289 695 801 2393 <1 current 81 | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium | ppm | ASTM D5185(m) ASTM D5185(m) | 50 5 50 0 560 1510 780 870 2040 2040 Iimit/base | 39 4 99 4 639 1289 695 801 2393 <1 2393 <1 2393 <1 | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium | ppm | ASTM D5185(m) ASTM D5185(m) | 50 50 00 560 1510 780 870 2040 Imit/base >+100 | 39 4 99 4 639 1289 695 801 2393 <1 2393 <1 81 6 6 | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium INFRA-RED | ppm | ASTM D5185(m) ASTM D5185(m) | 50 50 00 560 1510 780 870 2040 Imit/base >+100 | 39 4 99 4 639 1289 695 801 2393 <1 current 81 6 6 6 current | history1 history1 | history2 history2 |



OIL ANALYSIS REPORT



Contact/Location: Jack Levesque - GFL550