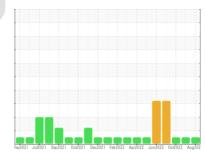


OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base



 \checkmark

NORMAL

Machine Id 830020 Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (36 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.

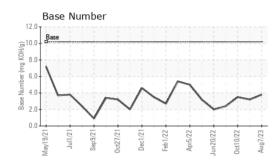
Fluid Condition

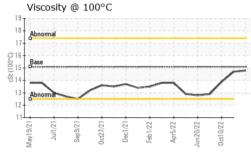
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Sample Number | | Client Info | | PCA0101737 | PCA0074704 | PCA0077328 |
|---------------|-----------------|-------------|------------|-------------|-------------|-------------|
| Sample Date | | Client Info | | 07 Aug 2023 | 13 Mar 2023 | 10 Oct 2022 |
| Machine Age | hrs | Client Info | | 6461 | 5271 | 4217 |
| Oil Age | hrs | Client Info | | 1190 | 1054 | 763 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 16 | 18 | 12 |
| Chromium | ppm | ASTM D5185m | >4 | 2 | 2 | 2 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | <1 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >30 | 0 | 2 | <1 |
| Copper | ppm | ASTM D5185m | >35 | 1 | 2 | 1 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 50 | 6 | <1 | 4 |
| Barium | ppm | ASTM D5185m | 5 | 0 | <1 | 2 |
| Molybdenum | ppm | ASTM D5185m | 50 | 54 | 52 | 45 |
| Manganese | ppm | ASTM D5185m | 0 | 1 | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | 560 | 606 | 554 | 429 |
| Calcium | ppm | ASTM D5185m | 1510 | 1753 | 1594 | 1316 |
| Phosphorus | ppm | ASTM D5185m | 780 | 751 | 686 | 589 |
| Zinc | ppm | ASTM D5185m | 870 | 1040 | 962 | 811 |
| Sulfur | ppm | ASTM D5185m | 2040 | 3049 | 2991 | 3460 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+100 | 10 | 7 | 7 |
| Sodium | ppm | ASTM D5185m | | 8 | 6 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 2 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0 | 0.1 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.7 | 11.5 | 10.7 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.2 | 25.9 | 23.8 |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.2 | 20.7 | 17.8 |
| Ondution | / 10/0/.1111111 | 701107414 | 220 | 10.2 | 20.1 | 17.0 |

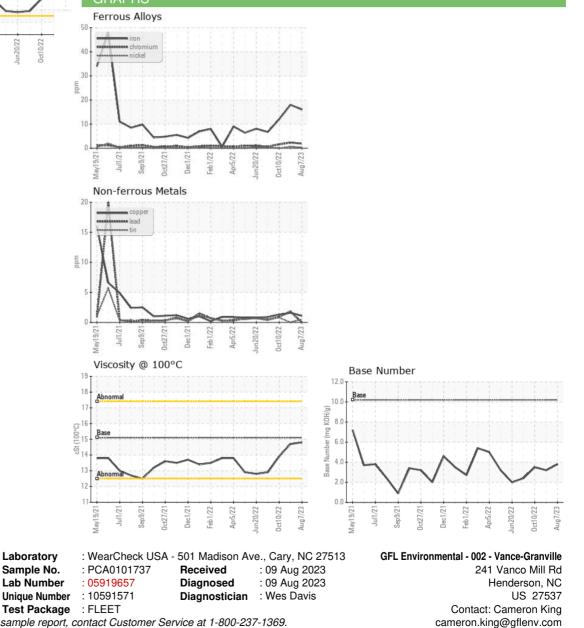


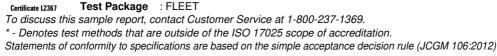
OIL ANALYSIS REPORT

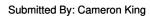




| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *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 | 14.8 | 14.7 | 13.9 |
| GRAPHS | | | | | | |







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