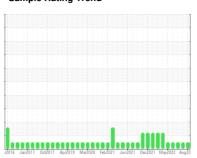


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



2630C PETERBILT

Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (48 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

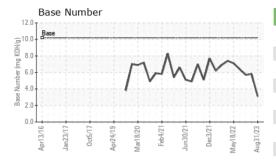
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

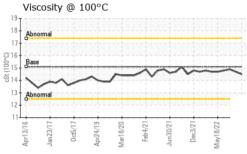
| (48 QTS) | 28 QTS) | | | | | |
|---------------|----------|-------------|------------|-------------|-------------|-------------|
| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0089277 | GFL0056621 | GFL0052303 |
| Sample Date | | Client Info | | 31 Aug 2023 | 28 Mar 2023 | 05 Oct 2022 |
| Machine Age | hrs | Client Info | | 18464 | 1702 | 16316 |
| Oil Age | hrs | Client Info | | 2148 | 1141 | 681 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 7 | 5 | 4 |
| Chromium | ppm | ASTM D5185m | >4 | 1 | <1 | 1 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >9 | 3 | 2 | 1 |
| Lead | ppm | ASTM D5185m | >30 | 14 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >35 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >4 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 50 | 16 | 21 | 13 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 54 | 50 | 49 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 560 | 583 | 495 | 475 |
| Calcium | ppm | ASTM D5185m | 1510 | 1672 | 1570 | 1491 |
| Phosphorus | ppm | ASTM D5185m | 780 | 685 | 677 | 589 |
| Zinc | ppm | ASTM D5185m | 870 | 949 | 952 | 862 |
| Sulfur | ppm | ASTM D5185m | 2040 | 2811 | 2503 | 2346 |
| CONTAMINANT | S | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+100 | 17 | 39 | 5 |
| Sodium | ppm | ASTM D5185m | | 18 | 12 | 27 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 2 | <1 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0.1 | 0.1 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.4 | 9.9 | 11.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 25.7 | 21.5 | 23.9 |
| FLUID DEGRADA | NOITA | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 22.6 | 17.6 | 20.4 |
| D N (DAI) | 1/011/ | AOTA DOGGO | 100 | | F 0 | |

Base Number (BN) mg KOH/g ASTM D2896 10.2



OIL ANALYSIS REPORT

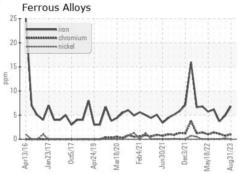


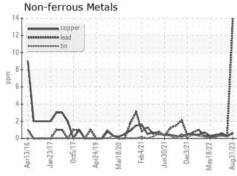


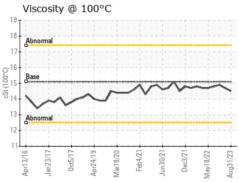
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

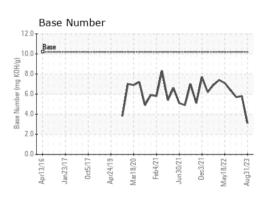
| FLUID PROPE | ERITES | metnoa | ilmit/base | current | nistory i | nistory2 |
|--------------|--------|-----------|------------|---------|-----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 14.5 | 14.7 | 14.9 |

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0089277 : 05941165

: 10631777

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Sep 2023 Diagnosed : 05 Sep 2023

Diagnostician : Wes Davis

GFL Environmental - 001 - Raleigh(CNG)

3741 Conquest Drive Garner, NC US 27529

Contact: Craig Johnson craig.johnson@gflenv.com T: (919)662-7100

* - 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)

F: (919)662-7130