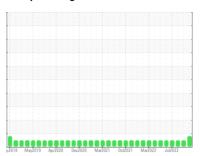


OIL ANALYSIS REPORT

Sample Rating Trend







2707C PETERBILT 567

Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (48 QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The lead level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

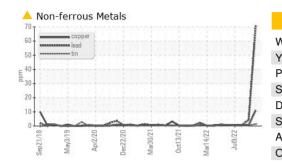
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

| (48 QTS) | | | | | | |
|------------------|---------------|-------------|------------|-------------|-------------|-------------|
| SAMPLE INFORM | NATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0103176 | GFL0089361 | GFL0089344 |
| Sample Date | | Client Info | | 30 Jan 2024 | 06 Sep 2023 | 20 Jul 2023 |
| Machine Age | hrs | Client Info | | 2389 | 15772 | 15380 |
| Oil Age | hrs | Client Info | | 0 | 392 | 3023 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |
| CONTAMINATI | ON | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| WEAR METALS | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 13 | 5 | 5 |
| Chromium | ppm | ASTM D5185m | >4 | 2 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 2 | 2 | 3 |
| Lead | ppm | ASTM D5185m | >30 | ^ 70 | 4 | <1 |
| Copper | ppm | ASTM D5185m | >35 | 11 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >4 | 1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 50 | 10 | 8 | 15 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 53 | 53 | 53 |
| Manganese | ppm | ASTM D5185m | 0 | 1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 560 | 654 | 545 | 577 |
| Calcium | ppm | ASTM D5185m | 1510 | 1717 | 1707 | 1730 |
| Phosphorus | ppm | ASTM D5185m | 780 | 842 | 692 | 758 |
| Zinc | ppm | ASTM D5185m | 870 | 1041 | 928 | 972 |
| Sulfur | ppm | ASTM D5185m | 2040 | 2491 | 2727 | 2915 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+100 | 11 | 14 | 14 |
| Sodium | ppm | ASTM D5185m | | 13 | 12 | 10 |
| Potassium | ppm | ASTM D5185m | >20 | 10 | 0 | 0 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0.1 | 0.1 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 13.2 | 11.2 | 11.0 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 30.9 | 24.1 | 22.6 |
| FLUID DEGRAD | ATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 29.2 | 21.1 | 19.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.2 | 2.3 | 3.7 | 4.4 |
| , , | 0 | | | | | |



Base Number

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 |
| | | | | | | |

limit/base

current

14.5

history1

14.7

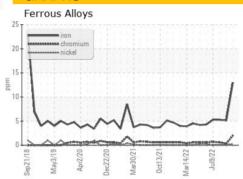
history2

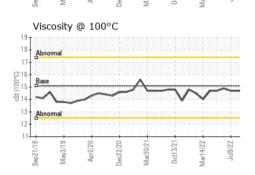
14.7

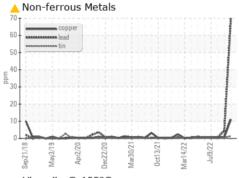
method

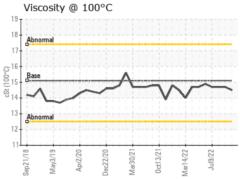
ASTM D445 15.1

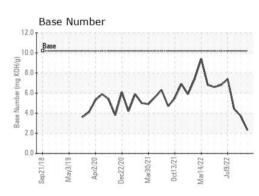
| KOH/g) | 0.0 | Λ | FLUID PROP | ERTIES |
|-----------|------|--------|----------------|---------------|
| ber (mg K | 6.0 | 242244 | Visc @ 100°C | cSt |
| Numb | 4.0 | | GRAPHS | |
| Base | 2.0- | | Ferrous Alloys | |















Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package : FLEET

: GFL0103176 : 06075371 : 10857462

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2024 Diagnosed

: 01 Feb 2024 Diagnostician : Don Baldridge GFL Environmental - 001 - Raleigh(CNG)

3741 Conquest Drive Garner, NC US 27529

F: (919)662-7130

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)

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