

OIL ANALYSIS REPORT

Area (YA139866) PETERBILT 10779

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

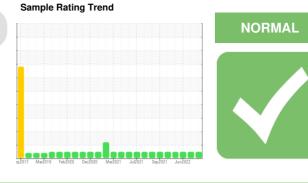
All component wear rates are normal.

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.

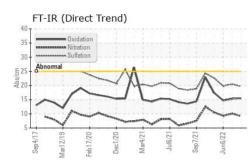


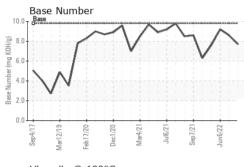
| SAMPLE INFORI | MATION | method | limit/base | current | history1 | history2 |
|------------------|----------|-------------|------------|----------------|-------------|------------------|
| Sample Number | | Client Info | | GFL0111381 | GFL0072233 | GFL0049655 |
| Sample Date | | Client Info | | 13 Mar 2024 | 08 Jun 2023 | 06 Jun 2022 |
| Machine Age | hrs | Client Info | | 0 | 9100 | 9100 |
| Oil Age | hrs | Client Info | | 0 | 10080 | 7262 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >165 | 23 | 61 | 58 |
| Chromium | ppm | ASTM D5185m | >5 | 1 | 2 | 1 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 5 | 11 | 4 |
| Lead | ppm | ASTM D5185m | >150 | 2 | 1 | 1 |
| Copper | ppm | ASTM D5185m | >90 | 2 | 6 | 2 |
| Tin | ppm | ASTM D5185m | >5 | 1 | <1 | 1 |
| Antimony | ppm | ASTM D5185m | | | | |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 7 | 5 | 10 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 64 | 62 | 60 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 929 | 934 | 890 |
| Calcium | ppm | ASTM D5185m | 1070 | 1107 | 1095 | 1108 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 996 | 1022 | 961 |
| Zinc | ppm | ASTM D5185m | 1270 | 1220 | 1240 | 1193 |
| Sulfur | ppm | ASTM D5185m | 2060 | 2974 | 2896 | 2949 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >35 | 6 | 6 | 5 |
| Sodium | ppm | ASTM D5185m | | 4 | 4 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 6 | 0 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >7.5 | 0.5 | 0.7 | 0.7 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.2 | 10.1 | 9.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.7 | 20.5 | 19.8 |
| FLUID DEGRAD | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.5 | 15.3 | 14.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 7.7 | 8.6 | 9.2 |
| :47:50) Boy: 1 | | | 0 1 11 | ad Dy: CEL 004 | | Aorquio Williomo |

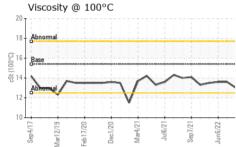
Submitted By: GFL004 and GLF112 - Marquis Williams



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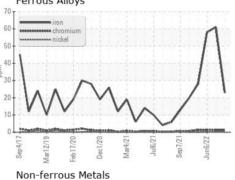
| VISUAL | | method | | | | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | 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 | >0.2 | 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 | 15.4 | 13.0 | 13.6 | 13.6 |
| GRAPHS | | | | | | |

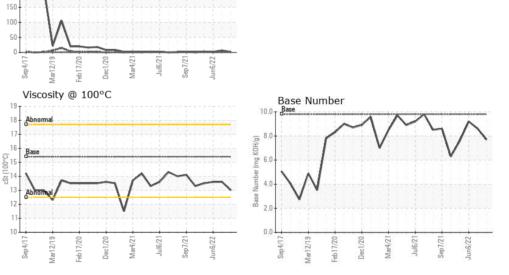
Ferrous Alloys

lead

400

350





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 004 - Newport - Central Coast Sample No. 427 Roberts Road : GFL0111381 Received : 05 Apr 2024 Lab Number : 06139504 Tested : 05 Apr 2024 Newport, NC US 28570 Unique Number : 10964312 Diagnosed : 05 Apr 2024 - Wes Davis Test Package : FLEET Contact: Marguis Williams Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. marquis.williams@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: (252)223-6010

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: GFL004 [WUSCAR] 06139504 (Generated: 04/06/2024 01:47:59) Rev: 1

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