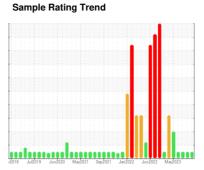


OIL ANALYSIS REPORT

(YA133456) [oil service] 10640C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (36 QTS)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

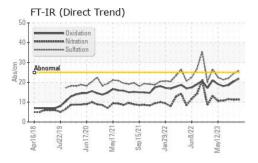
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

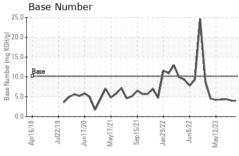
| (30 Q13) | | 12010 30120 | 15 SUNZOZO MBYZOZI | Sepzozi Janzozz Junzozz n | nay2023 | |
|---------------|-------------|-----------------|--------------------|---------------------------|-------------|-------------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0124481 | GFL0111060 | GFL0098517 |
| Sample Date | | Client Info | | 21 Jun 2024 | 06 Mar 2024 | 18 Dec 2023 |
| Machine Age | hrs | Client Info | | 21331 | 20445 | 19825 |
| Oil Age | hrs | Client Info | | 886 | 620 | 3003 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 11 | 14 | 19 |
| Chromium | ppm | ASTM D5185m | >4 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 2 | 3 | 6 |
| Lead | ppm | ASTM D5185m | >30 | 2 | 2 | <1 |
| Copper | ppm | ASTM D5185m | >35 | 1 | 2 | 2 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 2 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 50 | 8 | 10 | 183 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 58 | 55 | 122 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 2 | <1 |
| Magnesium | ppm | ASTM D5185m | 560 | 655 | 579 | 756 |
| Calcium | ppm | ASTM D5185m | 1510 | 1902 | 1561 | 1645 |
| Phosphorus | ppm | ASTM D5185m | 780 | 888 | 766 | 724 |
| Zinc | ppm | ASTM D5185m | 870 | 1109 | 993 | 942 |
| Sulfur | ppm | ASTM D5185m | 2040 | 2824 | 2296 | 2782 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+100 | 5 | 10 | 8 |
| Sodium | ppm | ASTM D5185m | | 10 | 10 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 8 | 22 | 10 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0 | 0 | 0 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.3 | 11.2 | 11.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 25.9 | 24.4 | 22.1 |
| | AUS/.IIIIII | 710111111111111 | | _0.0 | | |
| FLUID DEGRA | | | limit/base | current | history1 | history2 |

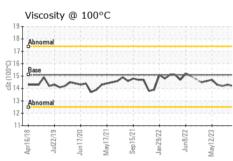
Base Number (BN) mg KOH/g ASTM D2896 10.2 3.9



OIL ANALYSIS REPORT



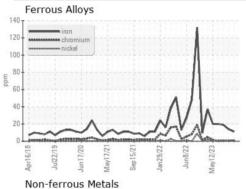


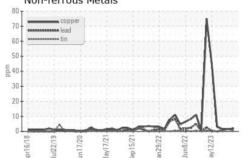


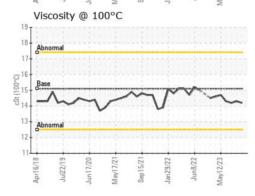
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

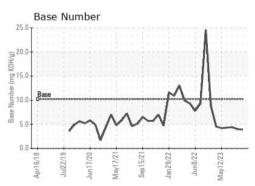
| FLUID PROP | ERIIES | method | | | | history2 |
|--------------|--------|-----------|------|------|------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.1 | 14.2 | 14.3 | 14.2 |

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0124481 Lab Number : 06217928

Unique Number : 11096125 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024

Tested : 25 Jun 2024 Diagnosed : 25 Jun 2024 - Wes Davis

GFL Environmental - 006 - Wilmington

3618 US Highway 421 N Wilmington, NC US 28401

Contact: Eric Wood eric.wood@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (717)723-1956 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (910)762-6880