



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
827091
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | GFL0120588 | GFL0120604 | --- |
| Sample Date | | Client Info | | 17 Jun 2024 | 06 May 2024 | --- |
| Machine Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | N/A | N/A | --- |
| Filter Changed | | Client Info | | N/A | N/A | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >100 | 2 | 19 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 4 | --- |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m | >330 | <1 | 1 | --- |
| Tin | ppm | ASTM D5185m | >15 | 0 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

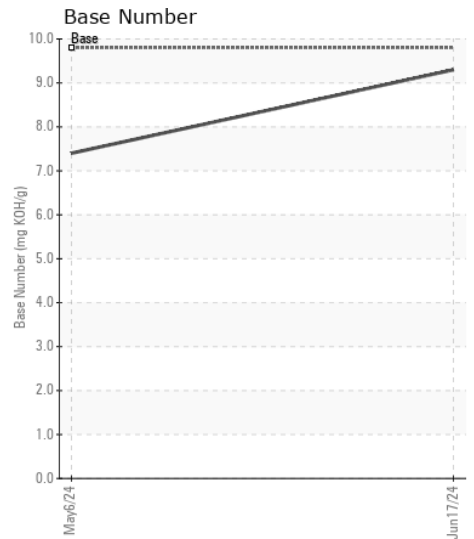
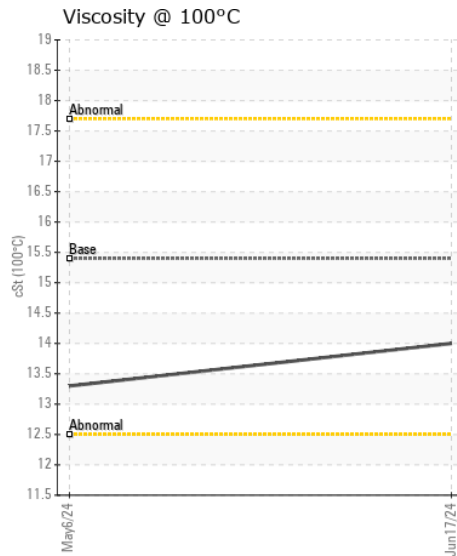
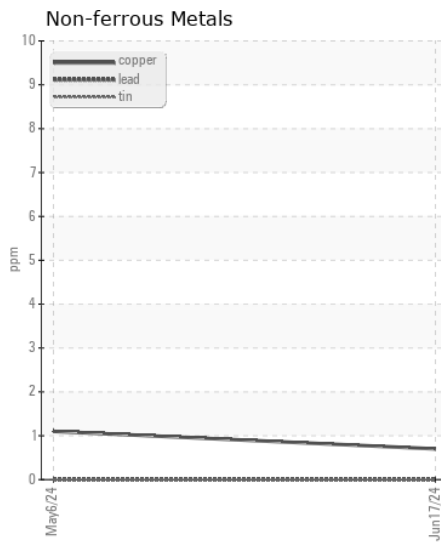
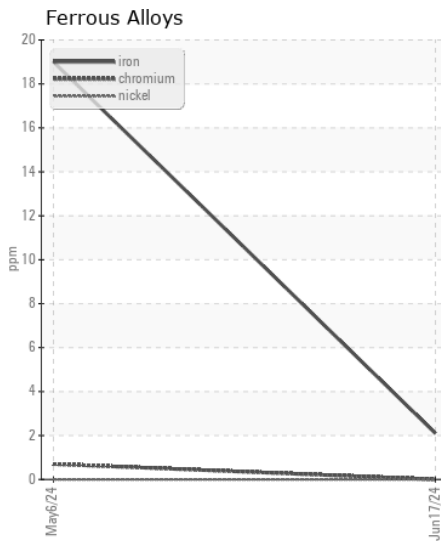
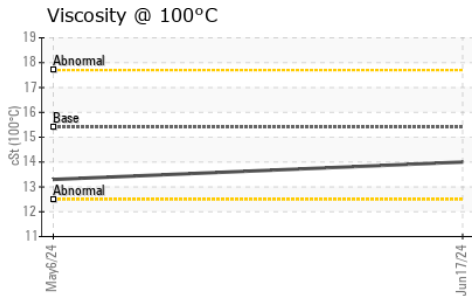
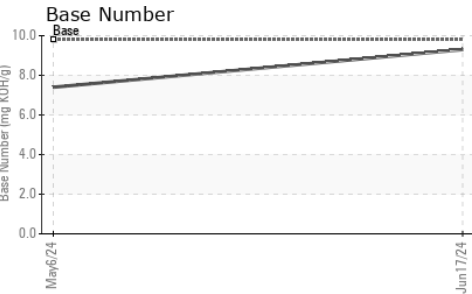
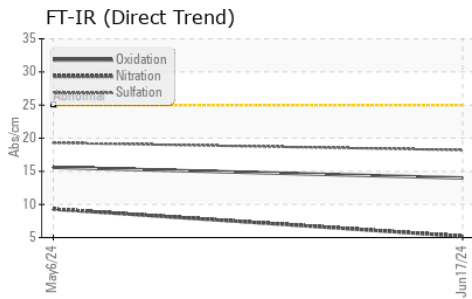
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 4 | 15 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | --- |
| Fuel | | WC Method | >6.0 | <1.0 | <1.0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.5 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 5.2 | 9.3 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.2 | 19.3 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | --- |

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.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 2 | 5 | --- |
| Boron | ppm | ASTM D5185m | 0 | 11 | 0 | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 60 | 54 | 53 | --- |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | 1010 | 944 | 882 | --- |
| Calcium | ppm | ASTM D5185m | 1070 | 1047 | 1181 | --- |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1031 | 958 | --- |
| Zinc | ppm | ASTM D5185m | 1270 | 1232 | 1113 | --- |
| Sulfur | ppm | ASTM D5185m | 2060 | 3723 | 3279 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.0 | 15.6 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 9.3 | 7.4 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 14.0 | 13.3 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0120588
Lab Number : 06220655
Unique Number : 11098852
Test Package : FLEET
Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Wes Davis

GFL Environmental - 904 - Chippewa Falls HC
 11888 & 11863 30th Avenue
 Chippewa Falls, WI
 US 54729
 Contact: Andy Kane

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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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