



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

Area
[1202334]

Machine Id
101074

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | GFL0107911 | --- | --- |
| Sample Date | | Client Info | | 09 Jan 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 13490 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >120 | 4 | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | --- | --- |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >20 | 2 | --- | --- |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | --- | --- |
| Copper | ppm | ASTM D5185(m) | >330 | <1 | --- | --- |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- | --- |

CONTAMINATION

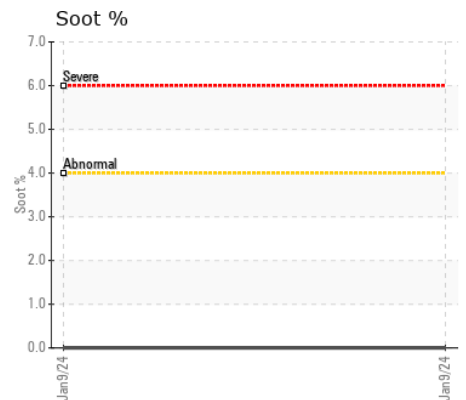
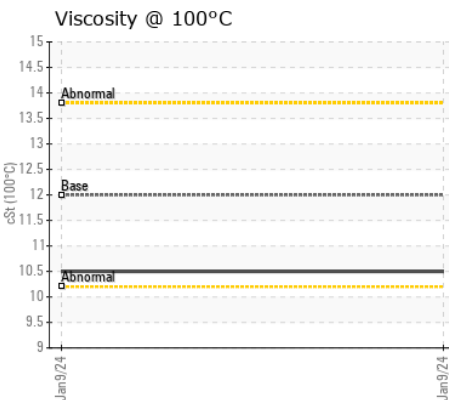
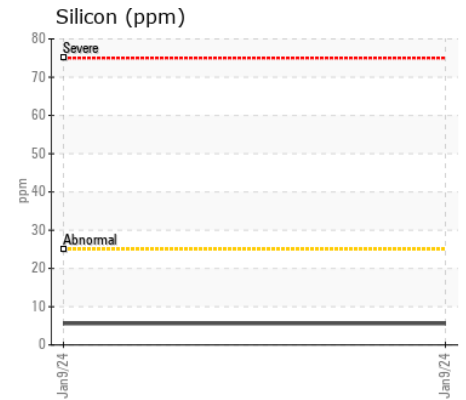
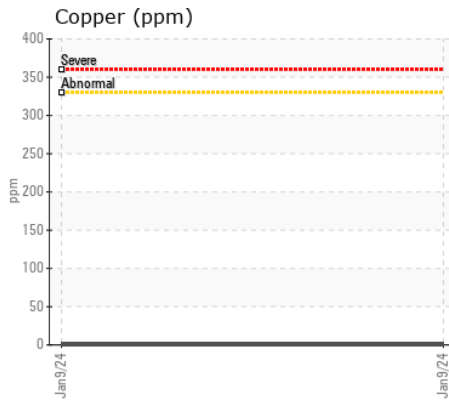
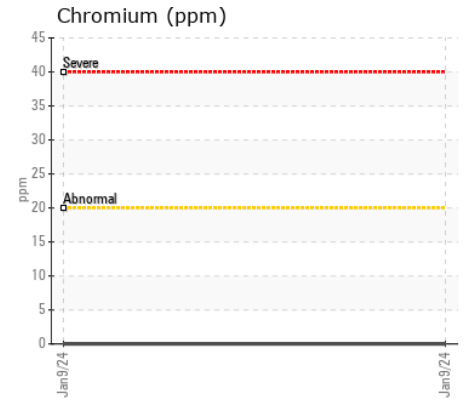
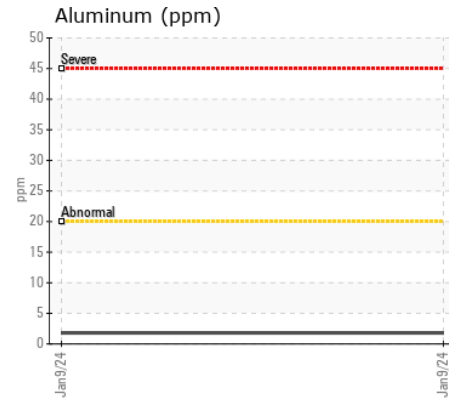
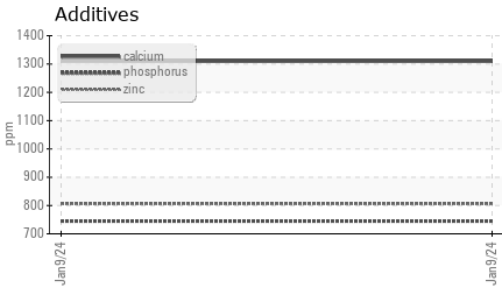
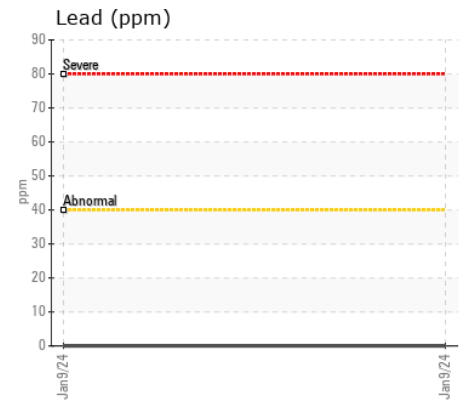
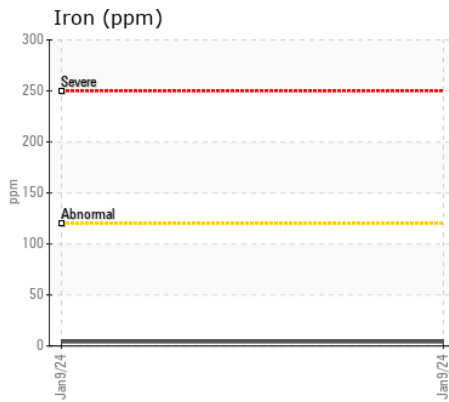
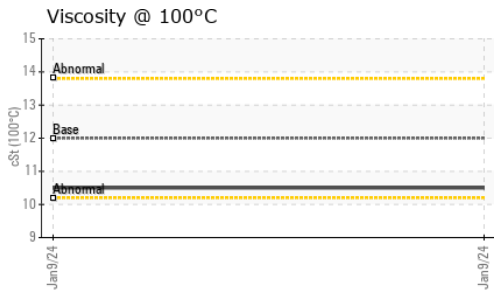
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|-----|-----|
| Silicon | ppm | ASTM D5185(m) | >25 | 6 | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | --- | --- |
| Fuel | | WC Method | >3.0 | <1.0 | --- | --- |
| Water | | WC Method | >0.2 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | ASTM D7844* | >4 | 0 | --- | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.1 | --- | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 18.3 | --- | --- |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | --- | --- |

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

| | | | | | | |
|--------------|----------|---------------|-------|-------------|-----|-----|
| Sodium | ppm | ASTM D5185(m) | | 2 | --- | --- |
| Boron | ppm | ASTM D5185(m) | 2 | 81 | --- | --- |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | 50 | 6 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 950 | 727 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 1050 | 1310 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 995 | 745 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 1180 | 806 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 2600 | 2704 | --- | --- |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 12.9 | --- | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | 12.00 | 10.5 | --- | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 350 - Emeral Park Regina
Sample No. : GFL0107911 **Recieved** : 16 Jan 2024 2B Industrial Drive., Great Plains Industrial Park,
Lab Number : 02608854 **Diagnosed** : 16 Jan 2024 Emerald Park, SK
Unique Number : 5709940 **Diagnostician** : Kevin Marson CA S4L 1B6
Test Package : MOB 1 Contact: Vaughn Hortness
 vhortness@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

T: (877)244-9500
 F: (306)244-9501