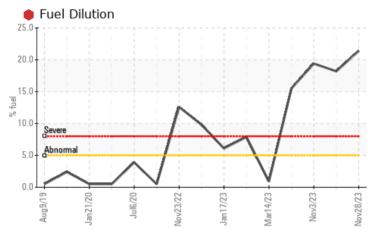


## **PROBLEM SUMMARY**

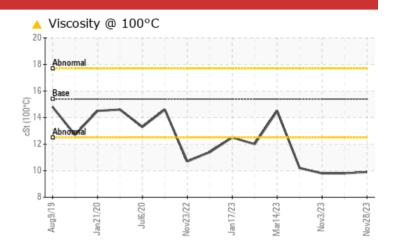
### Area GFL837 Machine Id 722023-310031

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

## COMPONENT CONDITION SUMMARY







### RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

| PROBLEMATIC TEST RESULTS |          |            |      |               |        |        |  |
|--------------------------|----------|------------|------|---------------|--------|--------|--|
| Sample Status            |          |            |      | SEVERE        | SEVERE | SEVERE |  |
| Fuel                     | %        | ASTM D3524 | >5   | <b>e</b> 21.4 | 18.2   | 19.4   |  |
| Base Number (BN)         | mg KOH/g | ASTM D2896 | 9.8  | <b>A</b> 3.5  | 4.0    | 4.7    |  |
| Visc @ 100°C             | cSt      | ASTM D445  | 15.4 | <b>A</b> 9.9  | 9.8    | 9.8    |  |

Customer Id: GFL836 Sample No.: GFL0098591 Lab Number: 06027041 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

| RECOMMENDE                    | O ACTIONS |      |         |   |
|-------------------------------|-----------|------|---------|---|
| Action                        | Status    | Date | Done By | Description   |
| Change Fluid                  |           |      | ?       | Oil and filter change at the time of sampling has been noted. |
| Change Filter                 |           |      | ?       | Oil and filter change at the time of sampling has been noted. |
| Resample                      |           |      | ?       | We recommend an early resample to monitor this condition.     |
| Check Fuel/injector<br>System |           |      | ?       | We advise that you check the fuel injection system.           |

## HISTORICAL DIAGNOSIS



## 21 Nov 2023 Diag: Don Baldridge

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



view report



### 03 Nov 2023 Diag: Don Baldridge

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

#### 05 Oct 2023 Diag: Wes Davis



We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.





## **OIL ANALYSIS REPORT**

### Area GFL837 Machine Id 722023-310031

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

### DIAGNOSIS

### Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

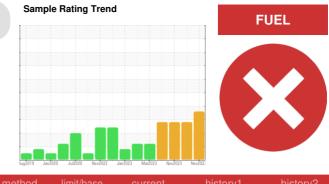
All component wear rates are normal.

## Contamination

There is a high amount of fuel present in the oil.

#### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN level is low.

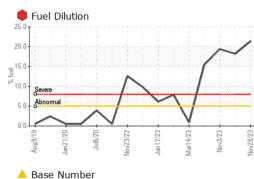


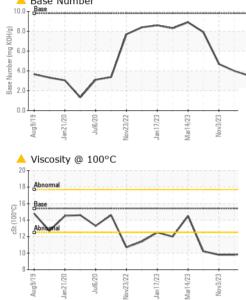
| SAMPLE INFORI   | MATION   | method   | limit/base   | current   | history1  | history2  |
|---|--|--|--|---|---|---|
| Sample Number   |  | Client Info  |  | GFL0098591  | GFL0098594  | GFL0098600  |
| Sample Date   |  | Client Info  |  | 28 Nov 2023   | 21 Nov 2023   | 03 Nov 2023   |
| Machine Age   | hrs  | Client Info  |  | 22181   | 22133   | 22002   |
| Oil Age   | hrs  | Client Info  |  | 0   | 0   | 0   |
| Oil Changed   |  | Client Info  |  | Changed   | N/A   | Not Changd  |
| Sample Status   |  |  |  | SEVERE  | SEVERE  | SEVERE  |
| CONTAMINAT  | ION  | method   | limit/base   | current   | history1  | history2  |
| 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  | >110   | 43  | 50  | 34  |
| Chromium  | ppm  | ASTM D5185m  |  | 2   | 2   | 1   |
| Nickel  | ppm  | ASTM D5185m  | >2   | -<br><1   | 1   | <1  |
| Titanium  | ppm  | ASTM D5185m  |  | 0   | <1  | <1  |
| Silver  | ppm  | ASTM D5185m  | >2   | 0   | 0   | 0   |
| Aluminum  | ppm  | ASTM D5185m  |  | 3   | 3   | 3   |
| Lead  | ppm  | ASTM D5185m  | >45  | <1  | <1  | <1  |
| Copper  | ppm  | ASTM D5185m  |  | 25  | 33  | 25  |
| Tin   | ppm  | ASTM D5185m  | >4   | 0   | <1  | <1  |
| Vanadium  | ppm  | ASTM D5185m  |  | <1  | 0   | 0   |
| Cadmium   | ppm  | ASTM D5185m  |  | 0   | <1  | 0   |
| ADDITIVES   |  | method   | limit/base   | ourropt   | history   | history2  |
|   |  | methou   | mm base  | current   | TIISLOTYT   | THOLOT YZ   |
|   | maa  |  |  |   | history1<br>2   |   |
| Boron   | ppm  | ASTM D5185m  | 0  | <1  | 2   | <1  |
| Boron<br>Barium   | ppm  | ASTM D5185m<br>ASTM D5185m   | 0  | <1<br>0   | 2   | <1<br>0   |
| Boron<br>Barium<br>Molybdenum   | ppm<br>ppm   | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | 0<br>0<br>60   | <1<br>0<br>39   | 2<br>0<br>51  | <1<br>0<br>47   |
| Boron<br>Barium<br>Molybdenum<br>Manganese  | ppm<br>ppm<br>ppm  | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | 0<br>0<br>60<br>0  | <1<br>0<br>39<br>0  | 2<br>0<br>51<br><1  | <1<br>0<br>47<br><1   |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium   | ppm<br>ppm<br>ppm<br>ppm   | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | 0<br>0<br>60<br>0<br>1010  | <1<br>0<br>39<br>0<br>680   | 2<br>0<br>51<br><1<br>756   | <1<br>0<br>47   |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium  | ppm<br>ppm<br>ppm<br>ppm<br>ppm  | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | 0<br>0<br>60<br>0<br>1010<br>1070  | <1<br>0<br>39<br>0<br>680<br>809  | 2<br>0<br>51<br><1  | <1<br>0<br>47<br><1<br>712<br>819   |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium   | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm   | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | 0<br>0<br>60<br>0<br>1010<br>1070<br>1150  | <1<br>0<br>39<br>0<br>680   | 2<br>0<br>51<br><1<br>756<br>881  | <1<br>0<br>47<br><1<br>712  |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus  | ppm<br>ppm<br>ppm<br>ppm<br>ppm  | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | 0<br>0<br>60<br>0<br>1010<br>1070  | <1<br>0<br>39<br>0<br>680<br>809<br>695   | 2<br>0<br>51<br><1<br>756<br>881<br>790   | <1<br>0<br>47<br><1<br>712<br>819<br>781  |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc  | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm  | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | 0<br>0<br>60<br>0<br>1010<br>1070<br>1150<br>1270  | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913  | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998  | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998   |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur  | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm  | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | 0<br>0<br>60<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>limit/base</b>  | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913<br>1661  | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986  | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998<br>2032   |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>CONTAMINAN  | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm                                 | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | 0<br>0<br>60<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>limit/base</b>  | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913<br>1661<br>current   | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986<br>history1  | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998<br>2032<br>history2   |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>CONTAMINAN<br>Silicon   | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm                          | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br><b>method</b><br>ASTM D5185m   | 0<br>0<br>60<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>limit/base</b>  | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913<br>1661<br><b>current</b><br>7   | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986<br>history1<br>10  | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998<br>2032<br>history2<br>8  |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>CONTAMINAN<br>Silicon<br>Sodium   | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>TS                    | ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br><b>method</b><br>ASTM D5185m   | 0<br>0<br>60<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>limit/base</b><br>>30   | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913<br>1661<br><u>current</u><br>7<br>16                                       | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986<br><b>history1</b><br>10<br>16   | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998<br>2032<br>history2<br>8<br>15  |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>CONTAMINAN<br>Silicon<br>Sodium<br>Potassium  | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>TS                           | ASTM D5185m<br>ASTM D5185m  | 0<br>0<br>0<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>limit/base</b><br>>30  | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913<br>1661<br><u>Current</u><br>7<br>16<br>3                                  | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986<br><b>history1</b><br>10<br>16<br>4  | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998<br>2032<br><b>history2</b><br>8<br>15<br>4  |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>CONTAMINAN<br>Silicon<br>Sodium<br>Potassium<br>Fuel  | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>TS                           | ASTM D5185m<br>ASTM D5185m  | 0<br>0<br>60<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>Imit/base</b><br>>30<br>>20<br>>5   | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913<br>1661<br><b>current</b><br>7<br>16<br>3<br>21.4                          | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986<br>1986<br>history1<br>10<br>16<br>4<br>4<br>€ 18.2  | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998<br>2032<br>history2<br>8<br>15<br>4<br>15<br>4  |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>CONTAMINAN<br>Silicon<br>Sodium<br>Potassium<br>Fuel<br>INFRA-RED                                     | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br><b>TS</b><br>ppm<br>ppm      | ASTM D5185m<br>ASTM D5185m  | 0<br>0<br>0<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>Imit/base</b><br>>30<br>>20<br>>5  | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913<br>1661<br><u>current</u><br>7<br>16<br>3<br>21.4<br><u>current</u>        | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986<br><b>history1</b><br>10<br>16<br>4<br>4<br>18.2<br><b>history1</b>                                      | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998<br>2032<br>history2<br>8<br>15<br>4<br>15<br>4<br>15<br>4<br>19.4   |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>CONTAMINAN<br>Silicon<br>Sodium<br>Potassium<br>Fuel<br>INFRA-RED<br>Soot %                           | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br><b>TS</b><br>ppm<br>ppm<br>ppm<br>% | ASTM D5185m<br>ASTM D5185m   | 0<br>0<br>0<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>Imit/base</b><br>>30<br>>20<br>>5<br><b>Imit/base</b><br>>3                    | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913<br>1661<br><u>current</u><br>7<br>16<br>3<br>21.4<br><u>current</u><br>1   | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986<br>history1<br>10<br>16<br>4<br>10<br>16<br>4<br>18.2<br>history1<br>0.9                                 | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998<br>2032<br>history2<br>8<br>15<br>4<br>15<br>4<br>15<br>4<br>15<br>4<br>15<br>4<br>15<br>4<br>15<br>4         |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>CONTAMINAN<br>Solicon<br>Sodium<br>Potassium<br>Fuel<br>INFRA-RED<br>Soot %<br>Nitration              | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm                   | ASTM D5185m<br>ASTM D5185m                               | 0<br>0<br>0<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>Iimit/base</b><br>>30<br>>20<br><b>Iimit/base</b><br>>3<br>>20                 | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913<br>1661<br>Current<br>7<br>16<br>3<br>21.4<br>Current<br>1<br>12.8         | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986<br>history1<br>10<br>16<br>4<br>18.2<br>history1<br>0.9<br>12.4  | <1 0 47 <1 712 819 781 998 2032 history2 8 15 4 19.4 19.4 11.4 14.6   |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>CONTAMINAN<br>Silicon<br>Sodium<br>Potassium<br>Fuel<br>INFRA-RED<br>Soot %<br>Nitration<br>Sulfation | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm                   | ASTM D5185m<br>ASTM D5185m | 0<br>0<br>0<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>imit/base</b><br>>30<br>>20<br>>5<br><b>imit/base</b><br>>3<br>>20<br>>3<br>3  | <1 0 39 0 680 809 695 913 1661 Current 7 16 3 21.4 Current 1 12.8 26.7 Current  | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986<br><b>history1</b><br>10<br>16<br>4<br>18.2<br><b>history1</b><br>0.9<br>12.4<br>26.4<br><b>history1</b> | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998<br>2032<br>history2<br>8<br>15<br>4<br>15<br>4<br>15<br>4<br>19.4<br>19.4<br>19.4<br>14.6<br>30.4<br>history2 |
| Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium<br>Phosphorus<br>Zinc<br>Sulfur<br>CONTAMINAN<br>Silicon<br>Sodium<br>Potassium<br>Fuel<br>INFRA-RED<br>Soot %<br>Nitration<br>Sulfation | ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm                   | ASTM D5185m<br>ASTM D5185m                               | 0<br>0<br>0<br>1010<br>1070<br>1150<br>1270<br>2060<br><b>Imit/base</b><br>>30<br>>20<br>>5<br><b>Imit/base</b><br>>3<br>>20<br>>5<br>>3 | <1<br>0<br>39<br>0<br>680<br>809<br>695<br>913<br>1661<br>Current<br>7<br>16<br>3<br>21.4<br>Current<br>1<br>12.8<br>26.7 | 2<br>0<br>51<br><1<br>756<br>881<br>790<br>998<br>1986<br><b>history1</b><br>10<br>16<br>4<br>10<br>16<br>4<br>18.2<br><b>history1</b><br>0.9<br>12.4<br>26.4   | <1<br>0<br>47<br><1<br>712<br>819<br>781<br>998<br>2032<br>history2<br>8<br>15<br>4<br>15<br>4<br>15<br>4<br>15<br>4<br>15<br>4<br>15<br>4<br>15<br>4<br>15   |

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

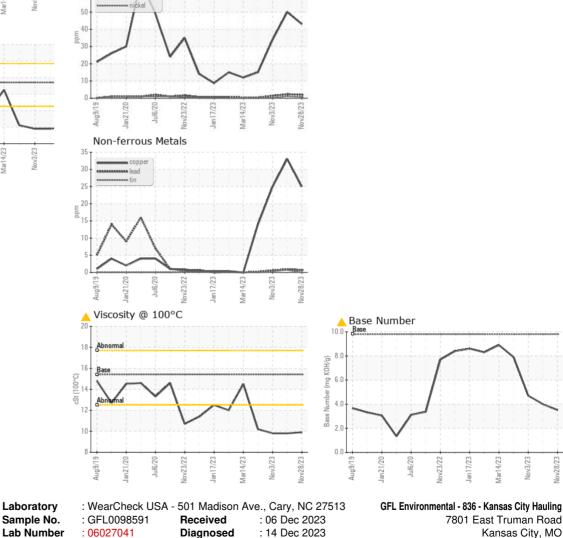


# **OIL ANALYSIS REPORT**





| 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   | >0.2       | 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       | <mark>/</mark> 9.9 | 9.8      | 9.8      |
| GRAPHS           |        |           |            |                    |          |          |
| Ferrous Alloys   |        |           |            |                    |          |          |
|                  |        |           |            |                    |          |          |



Diagnostician : Jonathan Hester

Test Package : FLEET (Additional Tests: PercentFuel) Certificate L2367 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)

: 10776832

7801 East Truman Road Kansas City, MO US 64126 Contact: Robert Hart rhart@gflenv.com T: (580)461-1509 F:

Laboratory

Unique Number

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

Nov3/23

Nov28/23