



FUEL REPORT

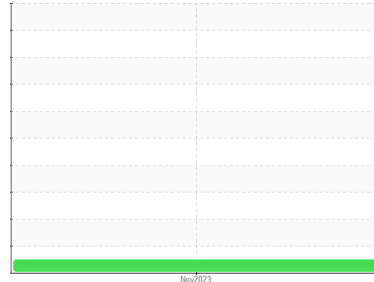
Sample Rating Trend

NORMAL



Machine Id
Manistee bottom of fuel cell

Component
Diesel Fuel
Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. No corrective action is recommended at this time.

Corrosion

All metal levels are normal indicating no corrosion in the system.

Contaminants

The water content is negligible. There is no indication of any contamination in the fuel.

Fuel Condition

The condition of the fuel is acceptable for the time in service.



| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number | Client Info | | | GFL0096118 | --- | --- |
| Sample Date | Client Info | | | 10 Nov 2023 | --- | --- |
| Machine Age | hrs | Client Info | | 0 | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

| PHYSICAL PROPERTIES | | method | limit/base | current | history1 | history2 |
|---------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | | 2.79 | --- | --- |

| SULFUR CONTENT | | method | limit/base | current | history1 | history2 |
|----------------|-----|-------------|------------|----------|----------|----------|
| Sulfur | ppm | ASTM D5185m | | 8 | --- | --- |

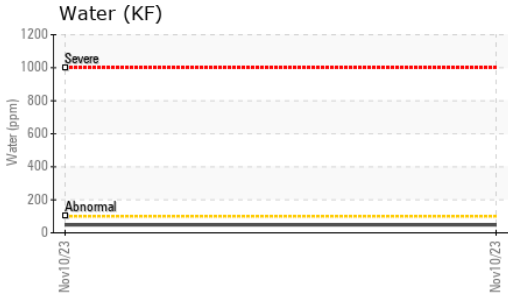
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | <1.0 | <1 | --- | --- |
| Sodium | ppm | ASTM D5185m | <0.1 | 1 | --- | --- |
| Potassium | ppm | ASTM D5185m | <0.1 | 10 | --- | --- |
| Water | % | ASTM D6304 | <0.05 | 0.004 | --- | --- |
| ppm Water | ppm | ASTM D6304 | <500 | 48.3 | --- | --- |

| HEAVY METALS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Aluminum | ppm | ASTM D5185m | <0.1 | 2 | --- | --- |
| Nickel | ppm | ASTM D5185m | <0.1 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m | <0.1 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | <0.1 | <1 | --- | --- |
| Iron | ppm | ASTM D5185m | <0.1 | 0 | --- | --- |
| Calcium | ppm | ASTM D5185m | <0.1 | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | <0.1 | 3 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | <0.1 | 0 | --- | --- |
| Zinc | ppm | ASTM D5185m | <0.1 | 0 | --- | --- |

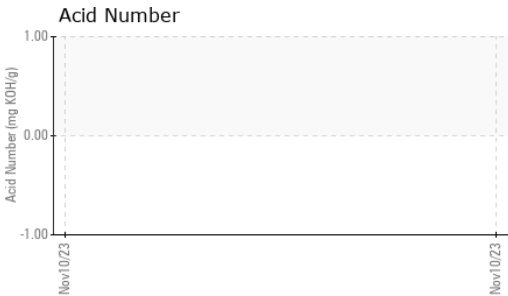
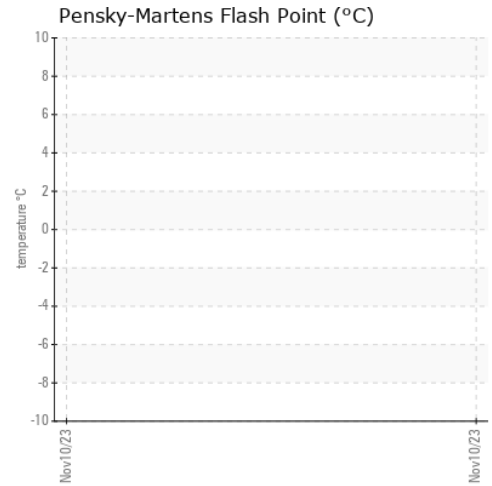
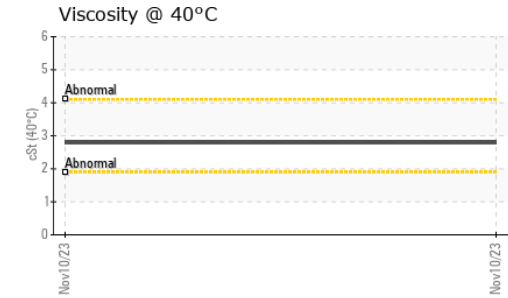
| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---|----------|----------|
| Color | | | |  | no image | no image |
| Bottom | | | |  | no image | no image |



FUEL REPORT



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0096118 **Received** : 15 Nov 2023
Lab Number : 06008769 **Diagnosed** : 30 Nov 2023
Unique Number : 10742531 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: KF)

GFL Environmental - 631 - Manistee
 407 Renaissance Dr
 Manistee, MI
 US 49660
 Contact: MITCH HERSHBERGER

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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F: