

# RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	>25	<u> </u>	<b>6</b> 3	<u> </u>

Customer Id: GFL821 Sample No.: GFL0090304 Lab Number: 06005164 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

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

# **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## **HISTORICAL DIAGNOSIS**

### 09 Oct 2023 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### 04 Oct 2023 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

24 Sep 2023 Diag: Don Baldridge

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.





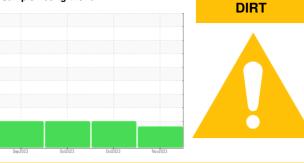
view report

## Report Id: GFL821 [WUSCAR] 06005164 (Generated: 11/15/2023 14:12:45) Rev: 1



# **OIL ANALYSIS REPORT**

Sample Rating Trend



Wear

Machine Id 414047 Component

**Diesel Engine** 

# **DIESEL ENGINE OIL SAE 5W30 (--- GAL)**

### DIAGNOSIS SAMPLE INFORMATION method limit/base current history1 history2 GFL0090304 GFL0090272 GFL0090211 Recommendation Sample Number **Client Info** No corrective action is recommended at this time. Sample Date Client Info 06 Nov 2023 09 Oct 2023 04 Oct 2023 Resample at the next service interval to monitor. Machine Age hrs Client Info 406 292 266 Oil Age hrs Client Info 406 150 150 Metal levels are typical for a new component Oil Changed Client Info Not Changd Not Changd Not Changd breaking in. Sample Status ABNORMAL ABNORMAL ABNORMAL Contamination CONTAMINATION method limit/base current history1 history2 Elemental level of silicon (Si) above normal indicating ingress of seal material. Fuel >3.0 WC Method <1.0 <1.0 <1.0 WC Method Glycol NEG NEG NEG Fluid Condition The BN result indicates that there is suitable WEAR METALS method limit/base historv1 current history2 alkalinity remaining in the oil. The condition of the oil is suitable for further service. Iron ASTM D5185m >120 33 20 22 ppm >20 Chromium ppm ASTM D5185m 1 <1 <1 Nickel ASTM D5185m >5 1 <1 0 ppm ASTM D5185m >2 0 Titanium ppm <1 <1 Silver ppm ASTM D5185m >2 2 <1 1 Aluminum ASTM D5185m >20 17 11 12 ppm ASTM D5185m >40 0 Lead ppm <1 <1 ASTM D5185m 79 83 Copper >330 189 ppm 3 2 3 Tin ppm ASTM D5185m >15 Vanadium ASTM D5185m 0 ppm <1 <1 Cadmium ppm ASTM D5185m <1 0 0 **ADDITIVES** method limit/base current history1 history2 208 250 250 276 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 10 1 0 0 ASTM D5185m 124 113 Molybdenum ppm 100 101 Manganese ASTM D5185m 4 2 3 ppm 450 695 768 Magnesium ppm ASTM D5185m 782 Calcium ASTM D5185m 3000 1427 1271 1376 ppm Phosphorus ppm ASTM D5185m 1150 714 754 772 Zinc ASTM D5185m 1350 813 927 934 ppm Sulfur 4250 2449 2550 ppm ASTM D5185m 2420 **CONTAMINANTS** method limit/base current history1 history2 Silicon ASTM D5185m >25 86 **6**3 ▲ 77 ppm Sodium ASTM D5185m 4 6 ppm 1 Potassium ASTM D5185m >20 25 27 45 ppm **INFRA-RED** method limit/base current history1 history2 Soot % % \*ASTM D7844 >4 0.2 0.2 0.2 Nitration Abs/cm \*ASTM D7624 >20 9.1 7.1 7.3 Sulfation Abs/.1mm \*ASTM D7415 >30 24.8 22.7 23.7 FLUID DEGRADATION method limit/base current history1 history2 >25 22.3 18.8 Oxidation Abs/.1mm \*ASTM D7414 19.7

Base Number (BN) mg KOH/g ASTM D2896 8.5

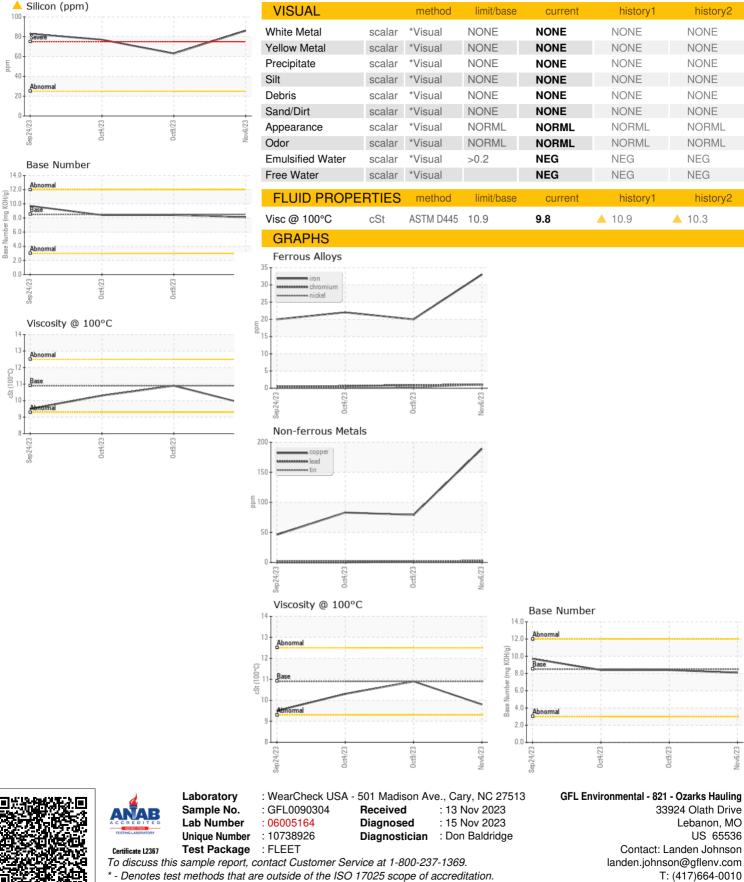
8.4

8.4

8.1



# **OIL ANALYSIS REPORT**



\* - 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)

Submitted By: GFL821, GFL824 and GFL829 - Landen Johnson

Lebanon, MO

US 65536

F:

0ct9/23

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

▲ 10.3