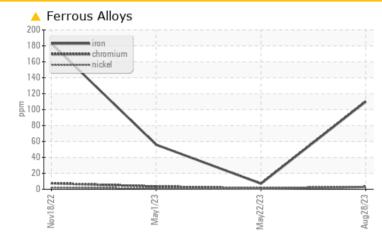


# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

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

PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>90	<u> </u>	7	56

Customer Id: GFL455 Sample No.: GFL0080775 Lab Number: 05940540 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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

## **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

### 22 May 2023 Diag: Wes Davis



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

#### 01 May 2023 Diag: Sean Felton



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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#### 18 Nov 2022 Diag: Jonathan Hester

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Cylinder, crank, or cam shaft wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



DIAGNOSIS

A Wear

oil

service.

Contamination

Fluid Condition

Recommendation

4523M Component **Diesel Engine** 

Machine Id

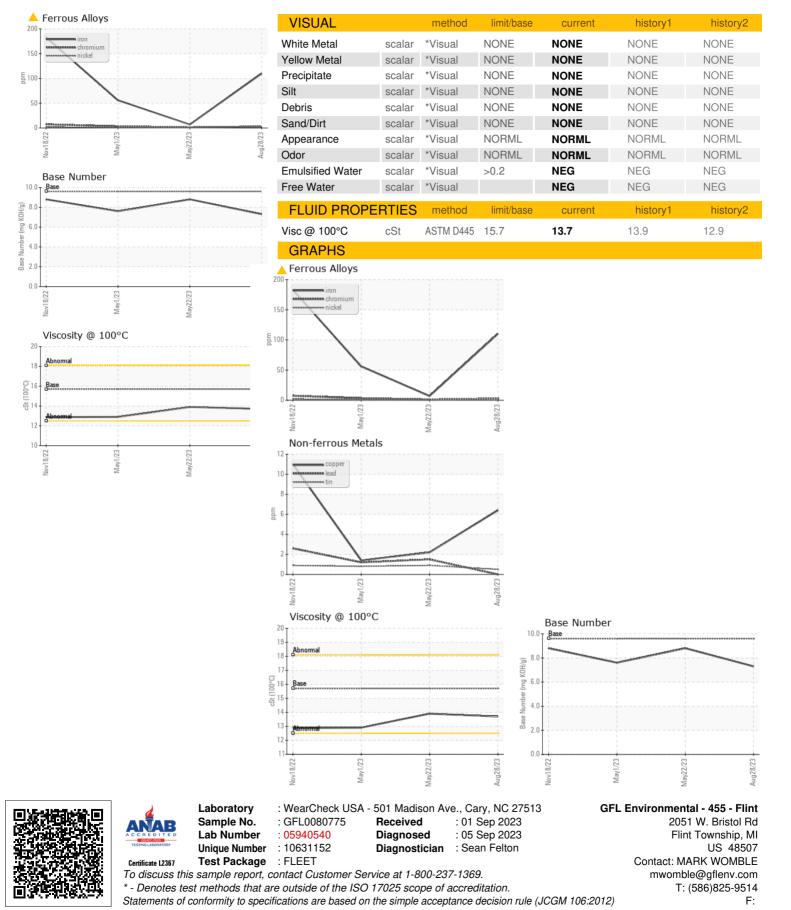
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# AMERICAS CHOICE 15W40 (32 QTS)

#### SAMPLE INFORMATION method limit/base current history1 history2 GFL0080775 GFL0080770 GFL0080752 Sample Number **Client Info** No corrective action is recommended at this time. Sample Date Client Info 28 Aug 2023 22 May 2023 01 May 2023 Resample at the next service interval to monitor. Machine Age hrs Client Info 20642 0 19159 Oil Age hrs Client Info 20642 0 600 Cylinder, crank, or cam shaft wear is indicated. Oil Changed **Client Info** Not Changd Not Changd Changed Sample Status ABNORMAL NORMAL NORMAL There is no indication of any contamination in the CONTAMINATION method limit/base current history1 history2 Fuel >3.0 WC Method <1.0 <1.0 <1.0 WC Method NEG NEG NEG Glycol The condition of the oil is acceptable for the time in WEAR METALS method limit/base history1 current history2 7 Iron ASTM D5185m >90 110 56 ppm >20 3 3 Chromium ppm ASTM D5185m 1 Nickel ASTM D5185m >2 2 <1 ppm 1 0 ASTM D5185m >2 0 Titanium ppm <1 Silver ppm ASTM D5185m >2 <1 0 0 Aluminum ASTM D5185m >20 7 3 7 ppm ASTM D5185m >40 0 2 Lead ppm 1 2 Copper ASTM D5185m >330 6 1 ppm Tin ppm ASTM D5185m >15 <1 <1 <1 Vanadium ASTM D5185m 0 0 ppm <1 Cadmium ppm ASTM D5185m 0 <1 0 **ADDITIVES** method limit/base current history1 history2 3 2 Boron ppm ASTM D5185m 4 Barium ppm ASTM D5185m 0 0 0 73 63 56 54 Molybdenum ppm ASTM D5185m Manganese ASTM D5185m <1 <1 ppm 1 1022 976 Magnesium ppm ASTM D5185m 900 Calcium ASTM D5185m 1436 1104 1094 1004 ppm Phosphorus ppm ASTM D5185m 1385 1042 965 942 Zinc ASTM D5185m 1512 1293 1261 1214 ppm Sulfur 3610 3491 3358 ppm ASTM D5185m 3495 **CONTAMINANTS** history2 method limit/base current history1 Silicon ASTM D5185m >25 10 6 10 ppm Sodium ASTM D5185m 8 5 ppm 1 Potassium ASTM D5185m >20 4 2 <1 ppm **INFRA-RED** method limit/base current history1 history2 Soot % % \*ASTM D7844 >6 1.5 0.2 1.1 >20 13.9 Nitration Abs/cm \*ASTM D7624 5.5 11.8 Sulfation Abs/.1mm \*ASTM D7415 >30 23.1 18.3 23.4 **FLUID DEGRADATION** limit/base method current history1 history2 >25 20.0 22.9 Oxidation Abs/.1mm \*ASTM D7414 13.6 Base Number (BN) mg KOH/g ASTM D2896 9.6 7.3 8.8 7.6



# **OIL ANALYSIS REPORT**



Submitted By: MARK WOMBLE

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