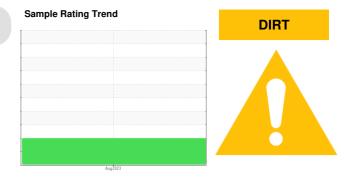


PROBLEM SUMMARY

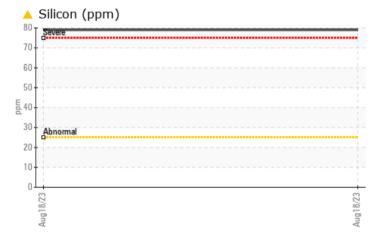
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

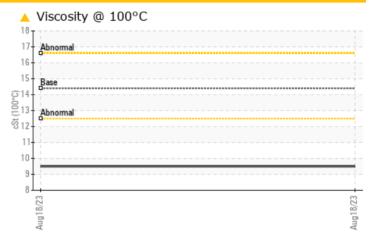


COMPONENT CONDITION SUMMARY

Fluid

Machine Id 414063 Component Diesel Engine





RECOMMENDATION

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

PROBLEMATIC TEST RESULTS	

Sample Status				ABNORMAL	
Silicon	ppm	ASTM D5185m	>25	<u> </u>	
Visc @ 100°C	cSt	ASTM D445	14.4	9 .5	

Customer Id: GFL180 Sample No.: GFL0086326 Lab Number: 05937022 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

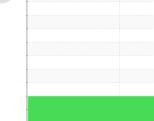
To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Wear

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

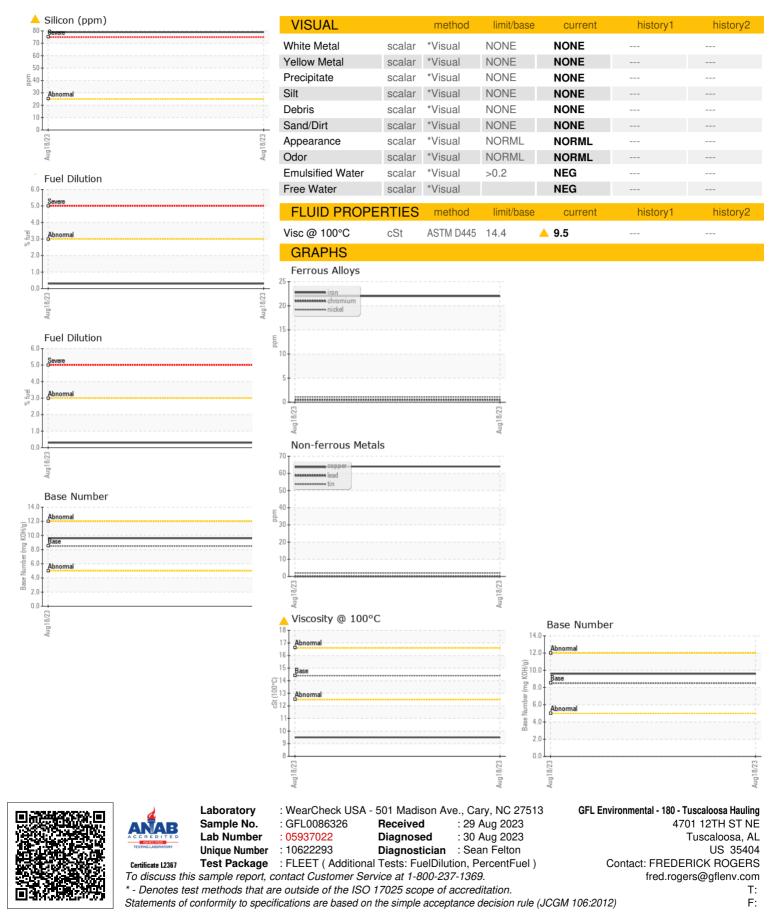
DIAGNOSIS SAMPLE INFORMATION method limit/base current history1 history2 GFL0086326 Sample Number **Client Info** Recommendation No corrective action is recommended at this time. Sample Date Client Info 18 Aug 2023 Resample at the next service interval to monitor. Machine Age hrs Client Info 169 Oil Age hrs Client Info 169 Metal levels are typical for a new component Oil Changed **Client Info** Not Changd breaking in. Sample Status ABNORMAL Contamination CONTAMINATION method limit/base current history1 history2 Elemental level of silicon (Si) above normal indicating ingress of seal material. Tests indicate Glycol WC Method NEG that there is no fuel present in the oil. WEAR METALS limit/base method current historv1 history2 Fluid Condition Iron ASTM D5185m >120 22 ppm The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in Chromium ASTM D5185m >20 ppm <1 the oil. Confirm oil type. Nickel ASTM D5185m >5 1 ppm Titanium ASTM D5185m >2 ppm <1 Silver >2 ppm ASTM D5185m <1 Aluminum ppm ASTM D5185m >20 12 ASTM D5185m >40 0 Lead ppm >330 64 Copper ppm ASTM D5185m Tin ASTM D5185m >15 2 ppm Vanadium 0 ppm ASTM D5185m Cadmium ppm ASTM D5185m 0 **ADDITIVES** method limit/base current history1 history2 424 Boron ASTM D5185m 250 ppm Barium ppm ASTM D5185m 10 0 Molvbdenum ASTM D5185m 100 121 ppm ASTM D5185m 4 Manganese ppm Magnesium ASTM D5185m 450 739 ppm Calcium ASTM D5185m 3000 ppm 1471 Phosphorus ASTM D5185m 1150 687 ppm Zinc ppm ASTM D5185m 1350 814 Sulfur ASTM D5185m 4250 2844 ppm **CONTAMINANTS** limit/base method current history1 history2 Silicon ppm ASTM D5185m >25 79 Sodium ASTM D5185m >158 4 ppm Potassium ASTM D5185m >20 22 ppm % ASTM D3524 >3.0 Fuel 0.3 **INFRA-RED** method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.1 Nitration Abs/cm *ASTM D7624 >20 6.7 ---Sulfation Abs/.1mm *ASTM D7415 >30 26.0 FLUID DEGRADATION method limit/base current history1 history2 Abs/.1mm *ASTM D7414 >25 20.8 Oxidation

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

9.6



OIL ANALYSIS REPORT



Submitted By: see also GFL868 - Chelsea Bryan