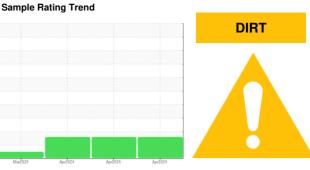


# **OIL ANALYSIS REPORT**





Machine Id 814034 Diesel Engine {not provided} (--- GAL)

## **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Metal levels are typical for a new component breaking in.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

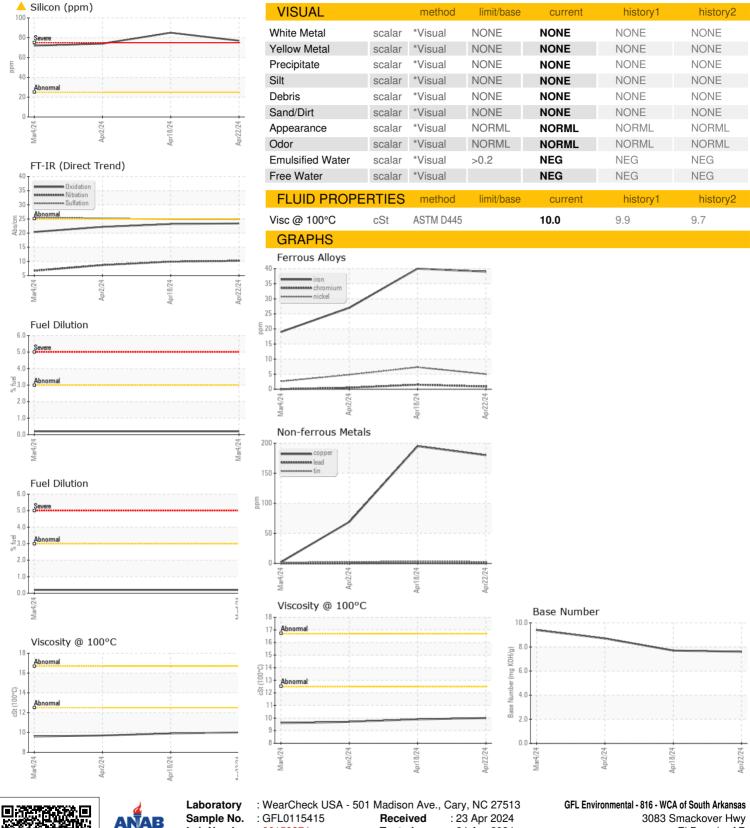
### **Fluid Condition**

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.

.)		Mar202	4 Apr2024	Apr2024 A	pr2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115415	GFL0102949	GFL0102988
Sample Date		Client Info		22 Apr 2024	18 Apr 2024	02 Apr 2024
Machine Age	hrs	Client Info		515	493	347
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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
ron	ppm	ASTM D5185m	>120	39	40	27
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>5	5	7	5
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	8	8	7
_ead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	180	195	69
Γin	ppm	ASTM D5185m	>15	3	3	2
√anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		208	241	294
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		128	137	122
Manganese	ppm	ASTM D5185m		5	5	4
Magnesium	ppm	ASTM D5185m		743	697	676
Calcium	ppm	ASTM D5185m		1549	1492	1432
Phosphorus	ppm	ASTM D5185m		694	728	699
Zinc	ppm	ASTM D5185m		846	836	807
Sulfur	ppm	ASTM D5185m		2525	2506	2618
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u> </u>	<u> </u>	<u>^</u> 74
Sodium	ppm	ASTM D5185m		2	2	3
Potassium	ppm	ASTM D5185m	>20	7	11	6
Fuel	%	ASTM D3524	>3.0	<1.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.2	9.9	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	24.9	25.2
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.4	23.2	22.2
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	7.7	8.7
	39					



## **OIL ANALYSIS REPORT**





Lab Number : 06158374 Unique Number: 10993797

**Tested** Diagnosed

: 24 Apr 2024

: 24 Apr 2024 - Jonathan Hester

El Dorado, AR US 71730 Contact: Mike Howell

mike.howell@gflenv.com

Test Package : FLEET ( Additional Tests: FuelDilution ) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

T:

F: