

# **OIL ANALYSIS REPORT**





Machine Id
1134

Component Front Diesel Engine

**DIESEL ENGINE OIL SAE 15W40 (--- LTR)** 

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

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

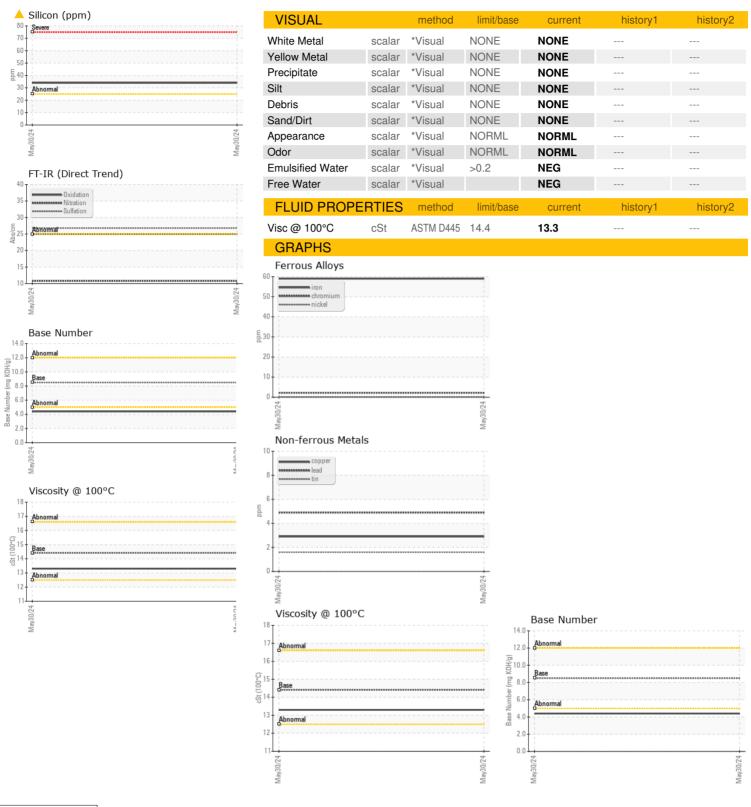
#### **Fluid Condition**

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.

				May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0054125		
Sample Date		Client Info		30 May 2024		
Machine Age	hrs	Client Info		17633		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	59		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	5		
Lead	ppm	ASTM D5185m	>40	5		
Copper	ppm	ASTM D5185m	>330	3		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	58		
Barium	ppm	ASTM D5185m	10	<1		
Molybdenum	ppm	ASTM D5185m	100	10		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m	450	88		
Calcium	ppm	ASTM D5185m	3000	1916		
Phosphorus	ppm	ASTM D5185m	1150	1018		
Zinc	ppm	ASTM D5185m	1350	1104		
Sulfur	ppm	ASTM D5185m	4250	3374		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<b>▲</b> 34		
Sodium	ppm	ASTM D5185m	>158	2		
Potassium	ppm	ASTM D5185m	>20	10		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	10.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.8		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.0		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.4		



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06202200 Unique Number : 11069661

Test Package : FLEET

: GFL0054125

Received : 06 Jun 2024 **Tested** : 11 Jun 2024 Diagnosed

: 11 Jun 2024 - Sean Felton

GFL Environmental - 630 - Northern A1 PA 117 Moonlite Dr Smithfield, PA

US 15478 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: