

# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id
812033

Component

Diesel Engine

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

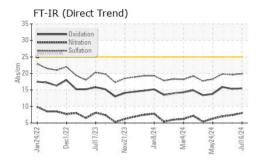
### **Fluid Condition**

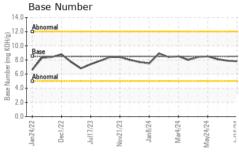
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

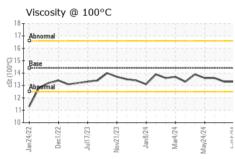
mc1022							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0122590	GFL0122562	GFL0117928	
Sample Date		Client Info		16 Jul 2024	03 Jul 2024	13 Jun 2024	
Machine Age	hrs	Client Info		6341	6260	6128	
Oil Age	hrs	Client Info		601	520	0	
Oil Changed		Client Info		Changed	Not Changd	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	8	3	5	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	0	
Aluminum	ppm	ASTM D5185m	>20	3	3	3	
Lead	ppm	ASTM D5185m	>40	<1	0	0	
Copper	ppm	ASTM D5185m		1	0	1	
Tin Vanadium	ppm	ASTM D5185m ASTM D5185m	>15	<1 0	<1	<1 0	
Cadmium	ppm ppm	ASTM D5185m		<1	0	0	
	ррпп		limit/bass				
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	1	2	<1 0	
Barium	ppm	ASTM D5185m	100	<1 62	62	56	
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	100	<1	<1	0	
Magnesium	ppm ppm	ASTM D5185m	450	975	964	957	
Calcium	ppm	ASTM D5185m	3000	1138	1144	1089	
Phosphorus	ppm	ASTM D5185m	1150	1069	881	817	
Zinc	ppm	ASTM D5185m	1350	1305	1083	1115	
Sulfur	ppm	ASTM D5185m	4250	3111	2848	2860	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	6	21	
Sodium	ppm	ASTM D5185m	>158	0	4	<1	
Potassium	ppm	ASTM D5185m	>20	3	0	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.4	7.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	19.6	19.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	15.3	15.9	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.8	7.9	8.1	



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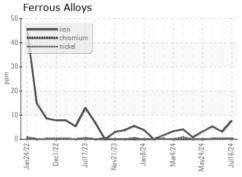


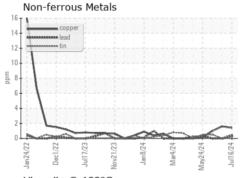


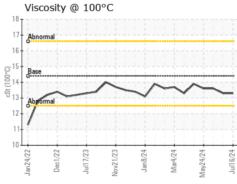
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

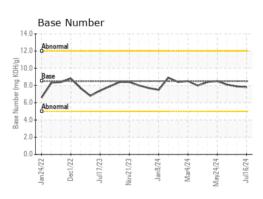
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	13.3	13.6

## **GRAPHS**













Certificate 12367

Sample No. Lab Number : 06238985 Unique Number : 11127819

: GFL0122590

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2024 **Tested** 

: 18 Jul 2024 Diagnosed : 18 Jul 2024 - Wes Davis

GFL Environmental - 892 - Pauls Valley Hauling

1910 S CHICKASAW STREET Pauls Valley, OK US 73075

Contact: Tony Graham tgraham2@wcamerica.com

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) Report Id: GFL892 [WUSCAR] 06238985 (Generated: 07/18/2024 10:49:34) Rev: 1

Contact/Location: Tony Graham - GFL892

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