

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **RSD-107** Component

Diesel Engine

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

### **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

The aluminum level is abnormal. All other metal levels are typical for a new component breaking in.

#### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

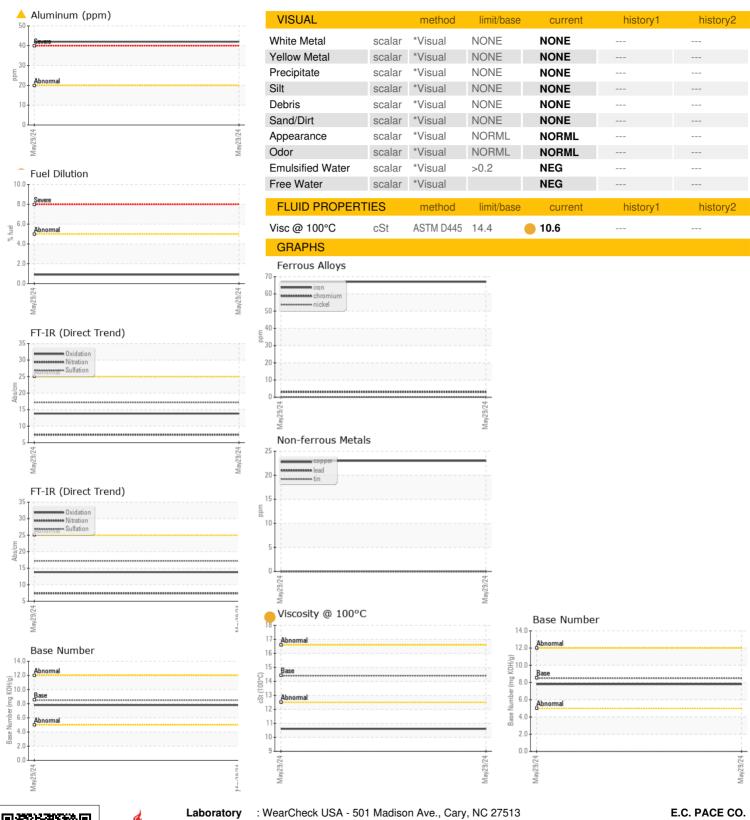
### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

				May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0909364		
Sample Date		Client Info		29 May 2024		
Machine Age	hrs	Client Info		458		
Oil Age	hrs	Client Info		458		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>100	67		
Chromium	ppm	ASTM D5185m		3		
Nickel		ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m	<b>7</b> 7	0		
Silver		ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m		<b>△</b> 42		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m		23		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m	>10	0		
Cadmium	ppm	ASTM D5185m		0		
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ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	32		
Barium	ppm	ASTM D5185m	10	19		
Molybdenum	ppm	ASTM D5185m	100	58		
Manganese	ppm	ASTM D5185m		5		
Magnesium	ppm	ASTM D5185m	450	1037		
Calcium	ppm	ASTM D5185m	3000	929		
Phosphorus	ppm	ASTM D5185m	1150	987		
Zinc	ppm	ASTM D5185m	1350	1151		
Sulfur	ppm	ASTM D5185m	4250	3527		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	19		
Sodium	ppm	ASTM D5185m	>158	7		
Potassium	ppm	ASTM D5185m		2		
Fuel	%	ASTM D3524	>5	0.9		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	7.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8		
Base Number (BN)	mg KOH/g	ASTM D2896		7.8		



## **OIL ANALYSIS REPORT**





Certificate 12367

Sample No.

Lab Number : 06235507

: WC0909364 Unique Number : 11124341

Received : 15 Jul 2024 **Tested** : 16 Jul 2024

: 16 Jul 2024 - Don Baldridge Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

ESECO@ECPACE.COM  $^st$  - 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)

Report Id: ECPROA [WUSCAR] 06235507 (Generated: 07/16/2024 11:42:50) Rev: 1

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