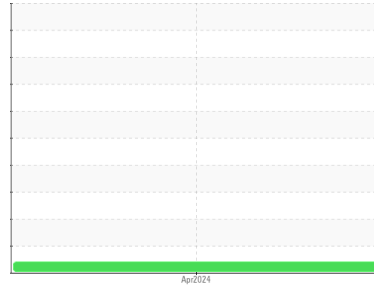




# OIL ANALYSIS REPORT

## Sample Rating Trend



## VISCOSITY



Machine Id

### SZLG233083

Component

**Diesel Engine**

Fluid

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

### DIAGNOSIS

#### ● Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0905048</b>	---	---
Sample Date	Client Info			<b>03 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>513</b>	---	---
Oil Age	hrs	Client Info		<b>513</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method	>0.2		<b>NEG</b>	---	---
Glycol	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>5</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>4</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<b>162</b>	---	---
Barium	ppm	ASTM D5185m	10	<b>1</b>	---	---
Molybdenum	ppm	ASTM D5185m	100	<b>65</b>	---	---
Manganese	ppm	ASTM D5185m		<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m	450	<b>446</b>	---	---
Calcium	ppm	ASTM D5185m	3000	<b>1866</b>	---	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1097</b>	---	---
Zinc	ppm	ASTM D5185m	1350	<b>1279</b>	---	---
Sulfur	ppm	ASTM D5185m	4250	<b>4215</b>	---	---

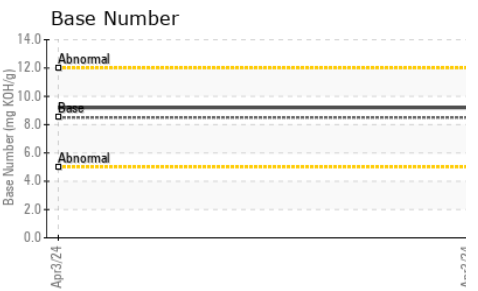
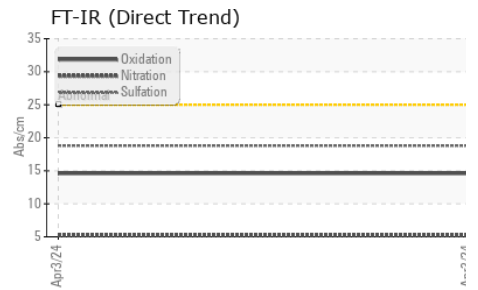
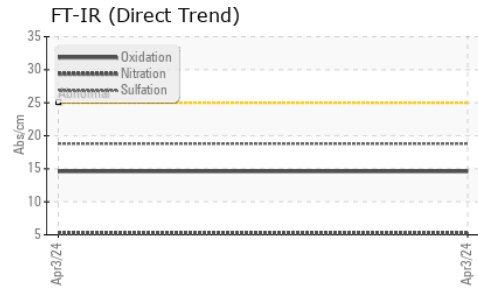
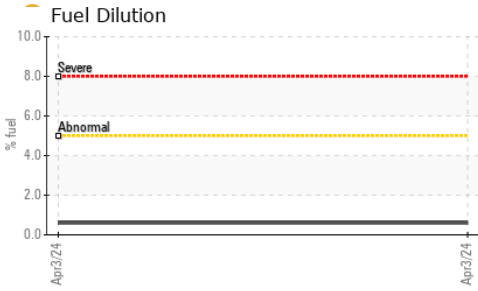
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	---	---
Sodium	ppm	ASTM D5185m	>158	<b>4</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Fuel	%	ASTM D3524	>5	<b>0.6</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.2</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.8</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>9.2</b>	---	---



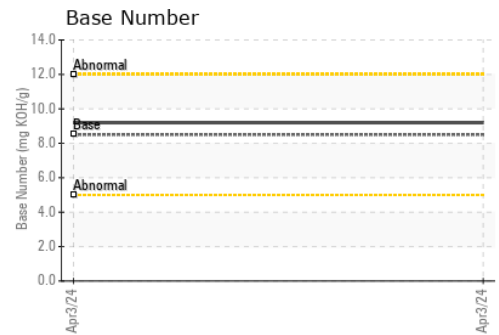
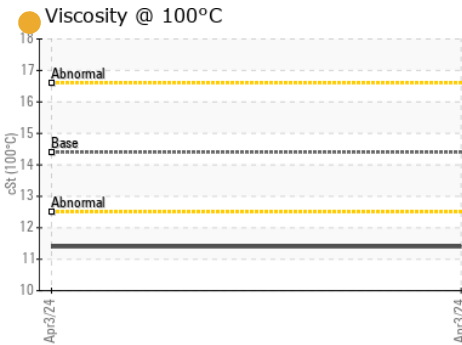
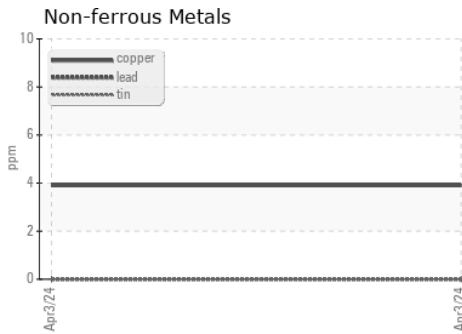
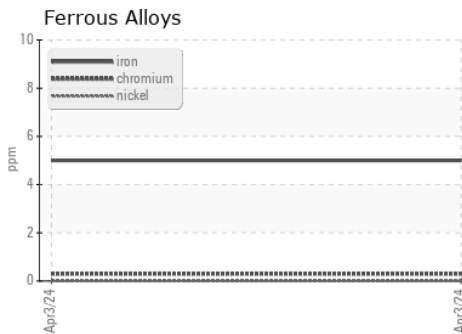
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	● 11.4	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0905048      **Received** : 15 Apr 2024  
**Lab Number** : **06149431**      **Tested** : 19 Apr 2024  
**Unique Number** : 10979509      **Diagnosed** : 19 Apr 2024 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**DOLE FRESH FRUIT**  
 PO BOX 1689  
 GULFPORT, MS  
 US 39502

Contact: JORDAN JOHNSTON  
 jordan.johnston@dole.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)

F: (228)867-2970