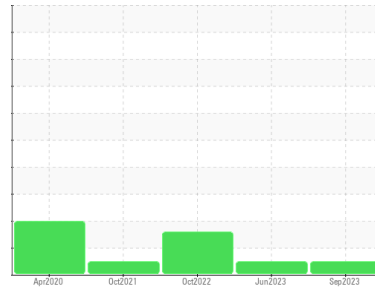




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**8018177**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. 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.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>IL05967539</b>	IL05887757	IL05682674
Sample Date	Client Info		<b>13 Sep 2023</b>	13 Jun 2023	21 Oct 2022
Machine Age	mls	Client Info	<b>284208</b>	268955	226215
Oil Age	mls	Client Info	<b>40000</b>	40000	40000
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	0.8
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>12</b>	37	49
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	4
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	4	6
Lead	ppm	ASTM D5185m >40	<b>1</b>	6	11
Copper	ppm	ASTM D5185m >330	<b>&lt;1</b>	2	4
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	2	4
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	<b>32</b>	16	7
Barium	ppm	ASTM D5185m 10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 100	<b>45</b>	52	80
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	2	4
Magnesium	ppm	ASTM D5185m 450	<b>512</b>	503	569
Calcium	ppm	ASTM D5185m 3000	<b>1677</b>	1665	1048
Phosphorus	ppm	ASTM D5185m 1150	<b>731</b>	723	592
Zinc	ppm	ASTM D5185m 1350	<b>915</b>	939	804
Sulfur	ppm	ASTM D5185m 4250	<b>2510</b>	2518	2589

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>7</b>	14	▲ 33
Sodium	ppm	ASTM D5185m	<b>2</b>	2	5
Potassium	ppm	ASTM D5185m >20	<b>1</b>	7	12

### INFRA-RED

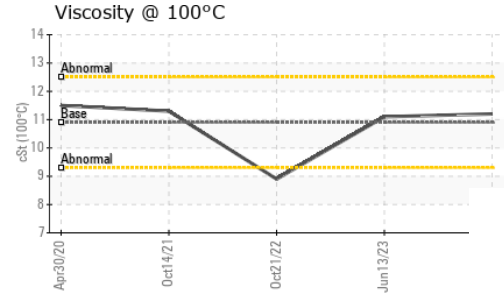
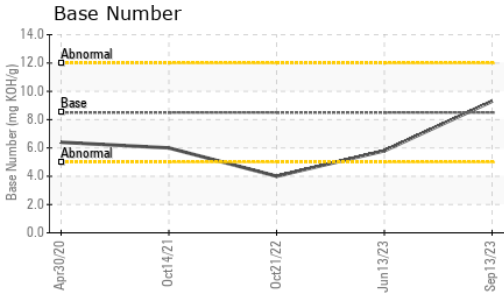
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.1</b>	12.2	10.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.5</b>	24.8	24.7

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.8</b>	25.9	17.7
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	<b>9.3</b>	5.8	4.0



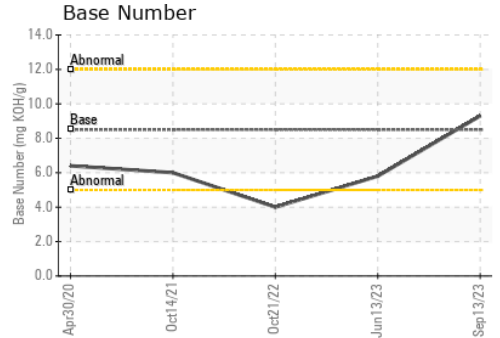
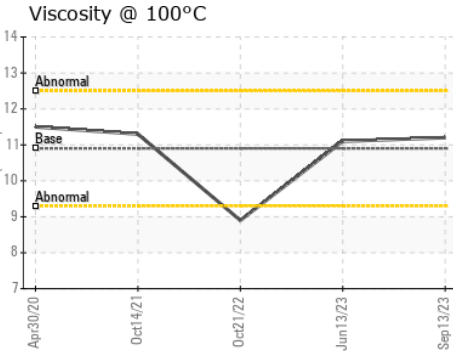
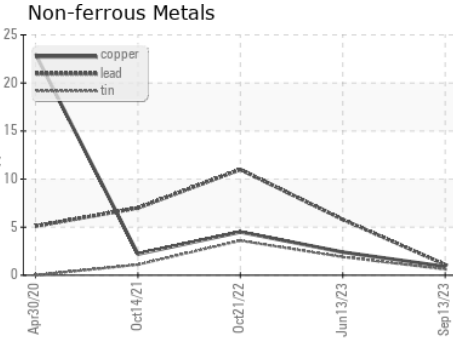
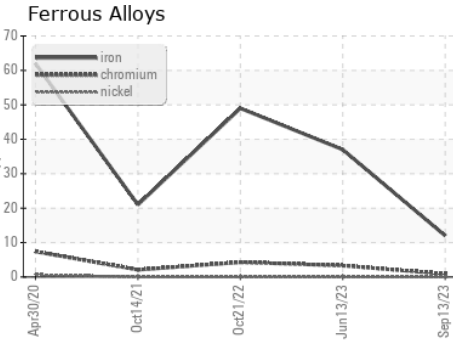
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	10.9	<b>11.2</b>	11.1	8.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL05967539 **Received** : 03 Oct 2023  
**Lab Number** : **05967539** **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10674090 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**IDEALRELEASE OF ATLANTA - FULTON**  
 4675 BAKERS FERRY ROAD  
 ATLANTA, GA  
 US 30331  
 Contact: DAVID JOHNS  
 davidjohns@idealease.com  
 T: (404)699-5571  
 F: (404)699-7420

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)