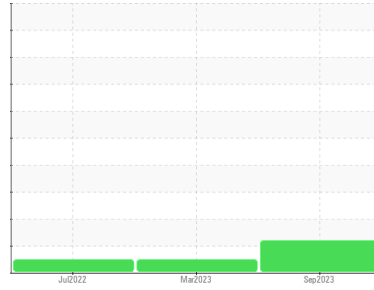




# PROBLEM SUMMARY

Sample Rating Trend



## DEGRADATION



Machine Id  
**8119710**  
 Component  
**Diesel Engine**  
 Fluid  
**NOT GIVEN (--- GAL)**

### COMPONENT CONDITION SUMMARY

No relevant graphs to display


### RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	NORMAL	NORMAL
Base Number (BN)	mg KOH/g ASTM D2896	▲ 3.0	4.1	5.1

**Customer Id:** IDETAMFL  
**Sample No.:** IL05967306  
**Lab Number:** 05967306  
**Test Package:** FLEET



*To manage this report scan the QR code*

*To discuss the diagnosis or test data:*  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

*To change component or sample information:*  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Service/change Fluid	---	---	?	The oil is near the end of it's useful service life, recommend schedule an oil change.

## HISTORICAL DIAGNOSIS

### 19 Mar 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

[view report](#)



### 01 Jul 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

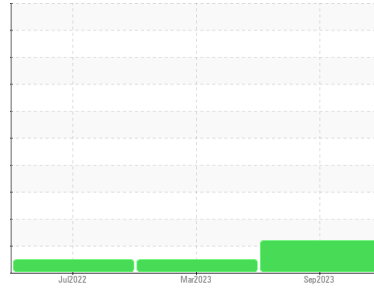
[view report](#)





# OIL ANALYSIS REPORT

Sample Rating Trend



**DEGRADATION**



Machine Id  
**8119710**  
 Component  
**Diesel Engine**  
 Fluid  
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### ▲ Fluid Condition

The BN level is low. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	<b>IL05967306</b>	IL05802183	IL05597819	
Sample Date	Client Info	<b>15 Sep 2023</b>	19 Mar 2023	01 Jul 2022	
Machine Age	mls	Client Info	<b>157735</b>	136298	89006
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A	
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	<b>30</b>	53	63
Chromium	ppm ASTM D5185m >20	<b>1</b>	3	5
Nickel	ppm ASTM D5185m >4	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185m >20	<b>7</b>	10	17
Lead	ppm ASTM D5185m >40	<b>4</b>	5	6
Copper	ppm ASTM D5185m >330	<b>1</b>	3	6
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	1	2
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>25</b>	25	20
Barium	ppm ASTM D5185m	<b>0</b>	2	0
Molybdenum	ppm ASTM D5185m	<b>77</b>	71	61
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	2	2
Magnesium	ppm ASTM D5185m	<b>538</b>	638	745
Calcium	ppm ASTM D5185m	<b>1244</b>	1336	1407
Phosphorus	ppm ASTM D5185m	<b>852</b>	879	747
Zinc	ppm ASTM D5185m	<b>1054</b>	1072	940
Sulfur	ppm ASTM D5185m	<b>2848</b>	2618	2798

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>7</b>	10	13
Sodium	ppm ASTM D5185m	<b>1</b>	3	4
Potassium	ppm ASTM D5185m >20	<b>10</b>	28	44

## INFRA-RED

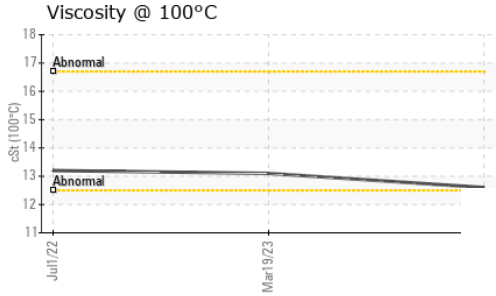
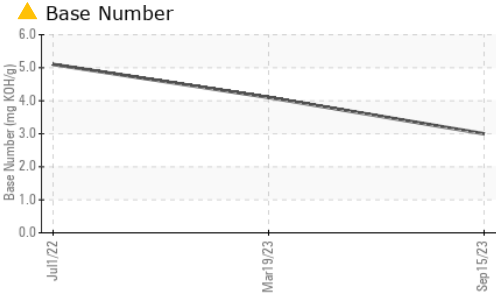
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.4</b>	0.7	0.7
Nitration	Abs/cm *ASTM D7624 >20	<b>11.4</b>	12.3	14.9
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>27.9</b>	27.9	28.8

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>26.9</b>	26.4	29.2
Base Number (BN)	mg KOH/g ASTM D2896	<b>▲ 3.0</b>	4.1	5.1



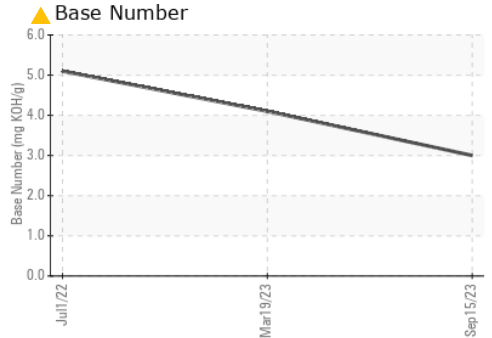
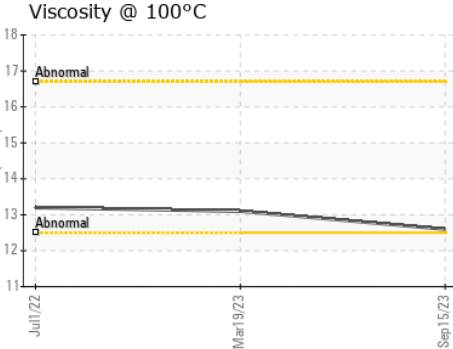
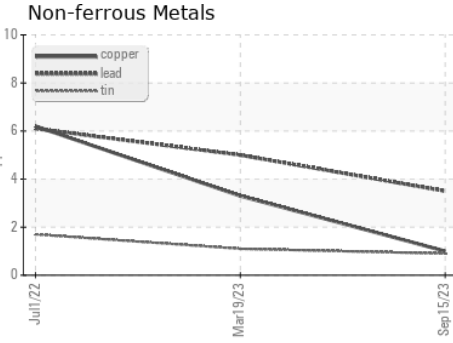
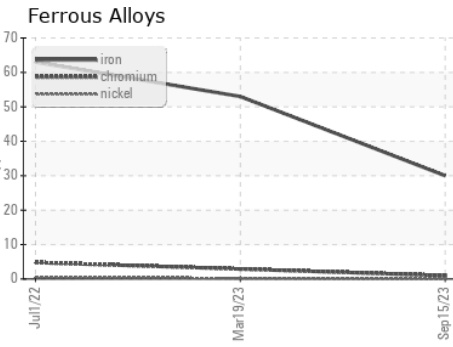
# OIL ANALYSIS REPORT



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	12.6	13.1	13.2

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL05967306      **Received** : 03 Oct 2023  
**Lab Number** : 05967306      **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10673857      **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**TAMPA IDEALEASE**  
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 Contact: Russ Cook  
 russcook@idealease.com  
 T: (813)626-9285  
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Certificate L2367  
 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)