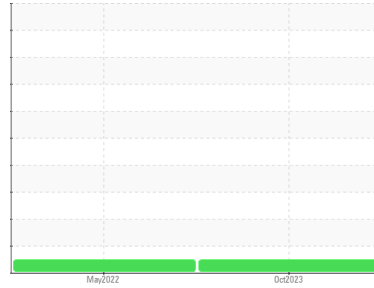




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**1100826**  
 Component  
**Diesel Engine**  
 Fluid  
**VALVOLINE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

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

### Wear

Metal levels are typical for a new component breaking in.

### 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>IL0033232</b>	IL05558273	---
Sample Date	Client Info			<b>07 Oct 2023</b>	20 May 2022	---
Machine Age	mls	Client Info		<b>14669</b>	5850	---
Oil Age	mls	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2		<b>NEG</b>	NEG	---
Glycol	WC Method			<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>38</b>	57	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>20	<b>11</b>	10	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	3	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	39	<b>61</b>	89	---
Barium	ppm	ASTM D5185m	1	<b>0</b>	1	---
Molybdenum	ppm	ASTM D5185m	49	<b>53</b>	73	---
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m	616	<b>723</b>	635	---
Calcium	ppm	ASTM D5185m	1554	<b>1179</b>	1283	---
Phosphorus	ppm	ASTM D5185m	899	<b>742</b>	760	---
Zinc	ppm	ASTM D5185m	1069	<b>912</b>	949	---
Sulfur	ppm	ASTM D5185m	2624	<b>2359</b>	2533	---

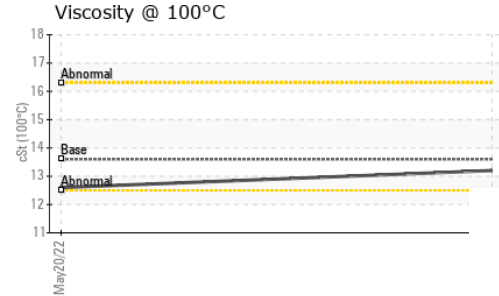
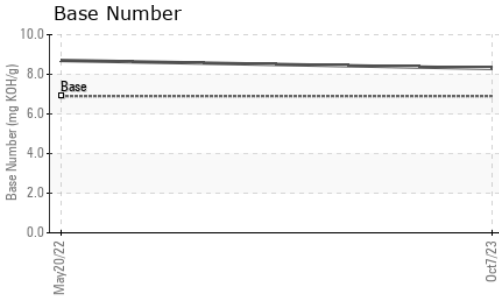
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>9</b>	12	---
Sodium	ppm	ASTM D5185m		<b>4</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>30</b>	32	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	7.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	18.9	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.8</b>	15.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	<b>8.3</b>	8.7	---



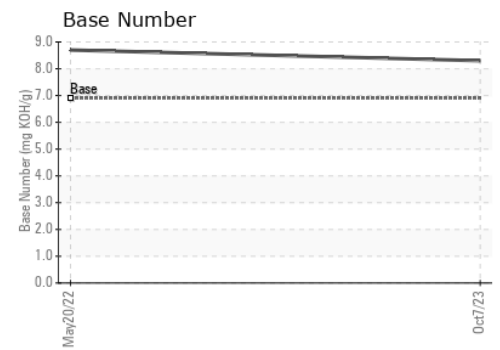
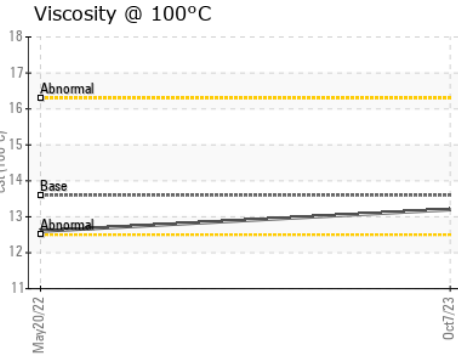
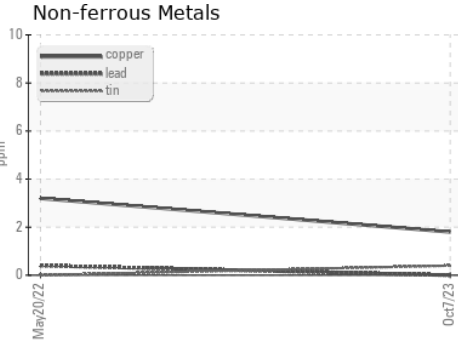
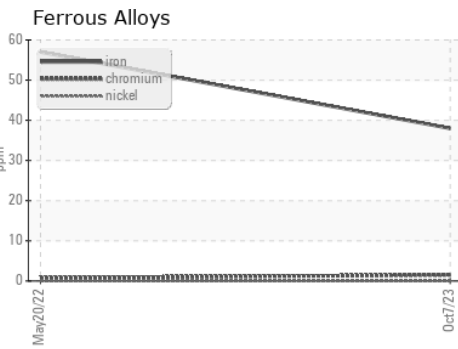
# OIL ANALYSIS REPORT



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	13.6	<b>13.2</b>	12.6	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0033232      **Received** : 20 Nov 2023  
**Lab Number** : **06013017**      **Diagnosed** : 21 Nov 2023  
**Unique Number** : 10752161      **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**TAMPA IDEALEASE**  
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 TAMPA, FL  
 US 33610-9565  
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 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)