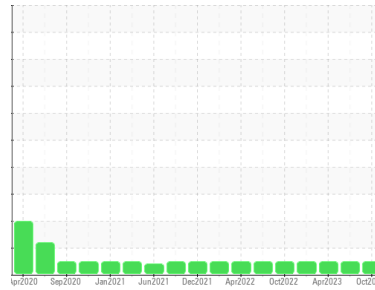




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**INTERNATIONAL 5012909**

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

## DIAGNOSIS

### Recommendation

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 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>IL0034266</b>	IL05911767	IL05832368
Sample Date	Client Info		<b>17 Oct 2023</b>	12 Jul 2023	19 Apr 2023
Machine Age	mls	Client Info	<b>256673</b>	225900	209321
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</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>40</b>	19	12
Chromium	ppm	ASTM D5185m >20	<b>2</b>	<1	0
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</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>5</b>	6	4
Lead	ppm	ASTM D5185m >40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >330	<b>2</b>	2	0
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 39	<b>18</b>	45	102
Barium	ppm	ASTM D5185m 1	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 49	<b>77</b>	77	71
Manganese	ppm	ASTM D5185m 1	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 616	<b>737</b>	604	732
Calcium	ppm	ASTM D5185m 1554	<b>1408</b>	1310	1401
Phosphorus	ppm	ASTM D5185m 899	<b>855</b>	766	859
Zinc	ppm	ASTM D5185m 1069	<b>1079</b>	988	1115
Sulfur	ppm	ASTM D5185m 2624	<b>2942</b>	2498	3058

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>10</b>	6	5
Sodium	ppm	ASTM D5185m	<b>0</b>	2	2
Potassium	ppm	ASTM D5185m >20	<b>6</b>	5	1

## INFRA-RED

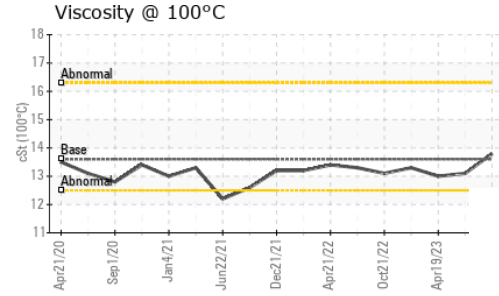
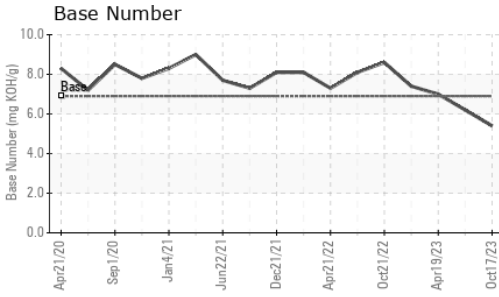
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1</b>	0.6	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>14.2</b>	11.3	9.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>28.8</b>	23.1	21.2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>28.5</b>	20.1	18.3
Base Number (BN)	mg KOH/g	ASTM D2896 6.9	<b>5.4</b>	6.2	7.0



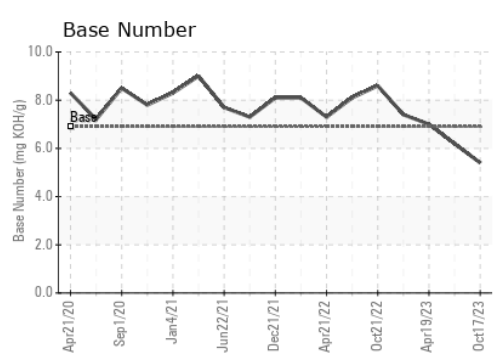
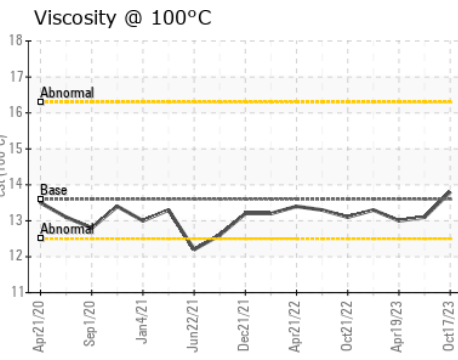
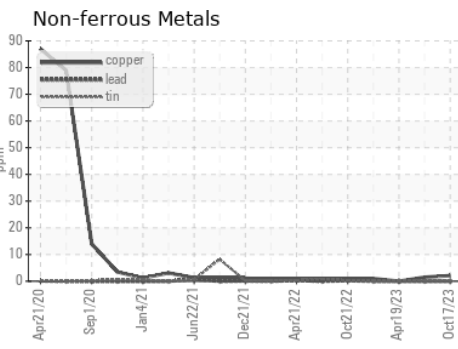
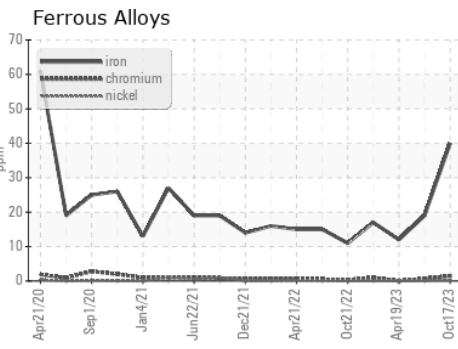
# OIL ANALYSIS REPORT



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	13.6	<b>13.8</b>	13.1	13.0

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0034266 **Received** : 02 Nov 2023  
**Lab Number** : **05996471** **Diagnosed** : 03 Nov 2023  
**Unique Number** : 10724831 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**TAMPA IDEALEASE**  
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 TAMPA, FL  
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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)