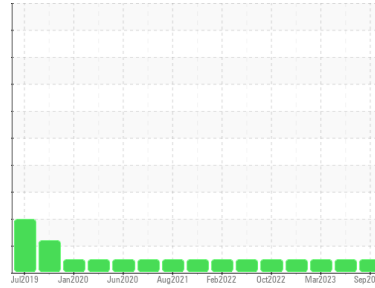




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**16822**

Component  
**Diesel Engine**

Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with 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>IL0027076</b>	IL0027063	IL0027117
Sample Date	Client Info		<b>06 Sep 2023</b>	31 May 2023	22 Mar 2023
Machine Age	mls	Client Info	<b>315105</b>	291648	273975
Oil Age	mls	Client Info	<b>23457</b>	17673	20988
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
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>34</b>	14	26
Chromium	ppm	ASTM D5185m >20	<b>1</b>	<1	3
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >20	<b>10</b>	8	3
Lead	ppm	ASTM D5185m >40	<b>2</b>	<1	2
Copper	ppm	ASTM D5185m >330	<b>2</b>	2	4
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>8</b>	25	9
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>63</b>	35	57
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m 0	<b>897</b>	616	908
Calcium	ppm	ASTM D5185m	<b>1128</b>	1465	1308
Phosphorus	ppm	ASTM D5185m	<b>1014</b>	745	987
Zinc	ppm	ASTM D5185m	<b>1250</b>	930	1238
Sulfur	ppm	ASTM D5185m	<b>3384</b>	2881	3377

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	5	5
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	3	3
Potassium	ppm	ASTM D5185m >20	<b>18</b>	8	4

## INFRA-RED

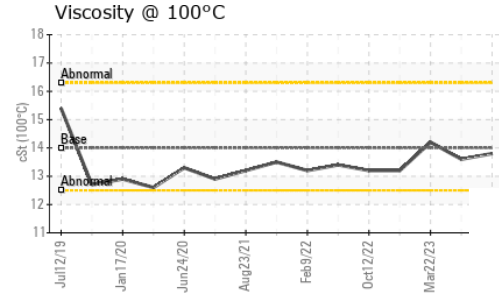
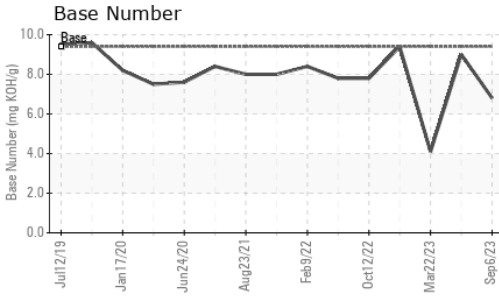
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.5	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.9</b>	10.0	12.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.4</b>	22.1	25.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.7</b>	21.6	27.6
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	<b>6.8</b>	9.0	4.1



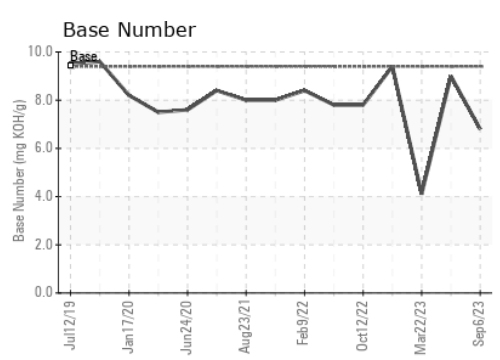
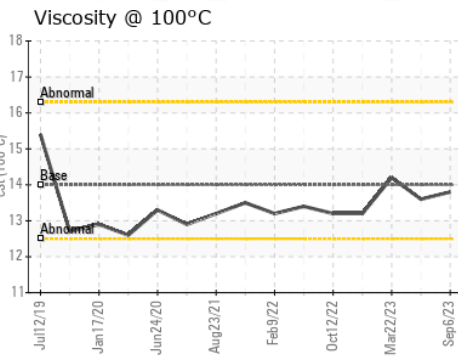
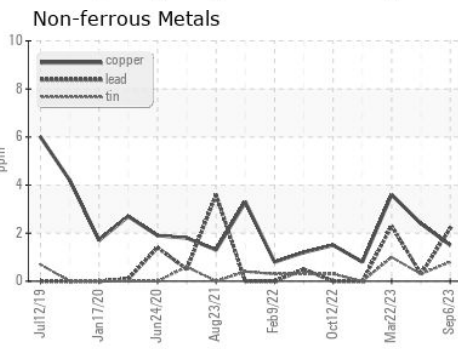
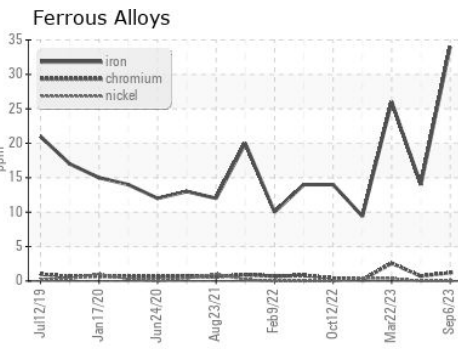
# OIL ANALYSIS REPORT



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	14	<b>13.8</b>	13.6	14.2

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0027076 **Received** : 29 Sep 2023  
**Lab Number** : **05965027** **Diagnosed** : 02 Oct 2023  
**Unique Number** : 10671578 **Diagnostician** : Angela Borella  
**Test Package** : FLEET

**RUSH TRUCK LEASING - EFFINGHAM Idealease**  
 1701 WEST FAYETTE AVENUE  
 EFFINGHAM, IL  
 US 62401  
 Contact: JACKIE OHNESORGE  
 ohnesorgej@rushenterprises.com  
 T: (217)342-9761  
 F: (217)342-9642

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)