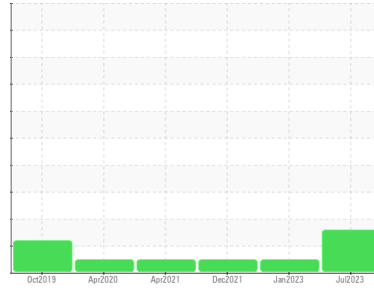




# PROBLEM SUMMARY

Sample Rating Trend



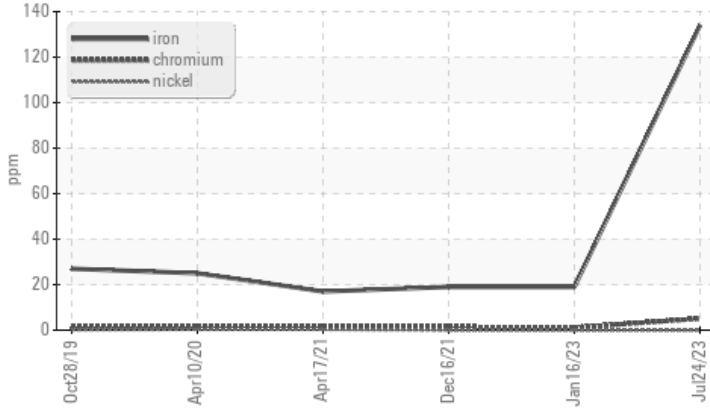
Machine Id  
**16397**

Component  
**Diesel Engine**

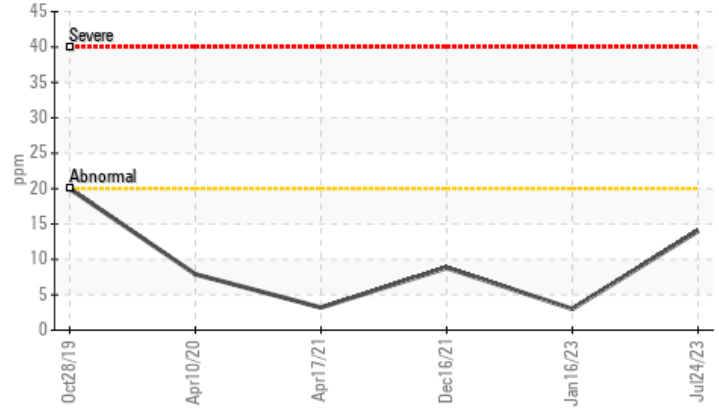
Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- QTS)**

## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



### ▲ Aluminum (ppm)



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m >100	▲ 134	19	19
Aluminum	ppm	ASTM D5185m >20	▲ 14	3	9

Customer Id: IDEEFF  
Sample No.: IL0027065  
Lab Number: 05935155  
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
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 16 Jan 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample. 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



### 16 Dec 2021 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Metal levels are typical for a new component breaking in. 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



### 17 Apr 2021 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.

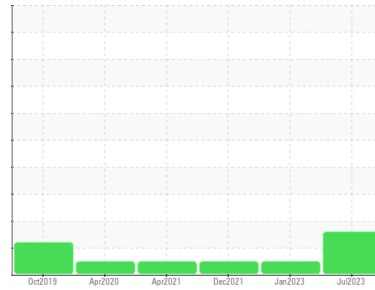
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**16397**

Component  
**Diesel Engine**

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

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### Wear

Piston, ring and cylinder wear is indicated. All other 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>IL0027065</b>	IL0027124	IL0015577
Sample Date	Client Info		<b>24 Jul 2023</b>	16 Jan 2023	16 Dec 2021
Machine Age	mls	Client Info	<b>103605</b>	93761	71588
Oil Age	mls	Client Info	<b>9672</b>	11239	12012
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
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>▲ 134</b>	19	19
Chromium	ppm	ASTM D5185m >20	<b>5</b>	1	1
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>▲ 14</b>	3	9
Lead	ppm	ASTM D5185m >40	<b>9</b>	1	2
Copper	ppm	ASTM D5185m >330	<b>6</b>	<1	22
Tin	ppm	ASTM D5185m >15	<b>3</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	<1
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 0	<b>28</b>	7	26
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>20</b>	52	5
Manganese	ppm	ASTM D5185m	<b>3</b>	<1	<1
Magnesium	ppm	ASTM D5185m 0	<b>701</b>	945	727
Calcium	ppm	ASTM D5185m	<b>1635</b>	1334	1381
Phosphorus	ppm	ASTM D5185m	<b>812</b>	962	708
Zinc	ppm	ASTM D5185m	<b>987</b>	1221	865
Sulfur	ppm	ASTM D5185m	<b>3488</b>	3448	2514

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>14</b>	9	11
Sodium	ppm	ASTM D5185m	<b>4</b>	2	1
Potassium	ppm	ASTM D5185m >20	<b>39</b>	6	11

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.6</b>	2	2.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>12.5</b>	10.8	12.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>29.0</b>	23.6	27.9

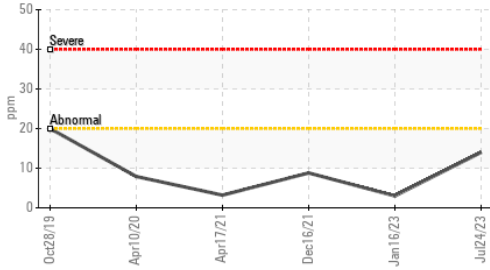
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>27.9</b>	17.4	18.3
Base Number (BN)	mg KOH/g	ASTM D2896 9.4	<b>4.3</b>	5.3	8

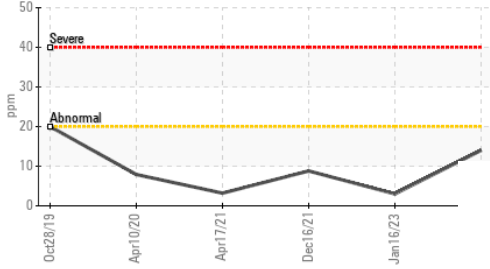


# OIL ANALYSIS REPORT

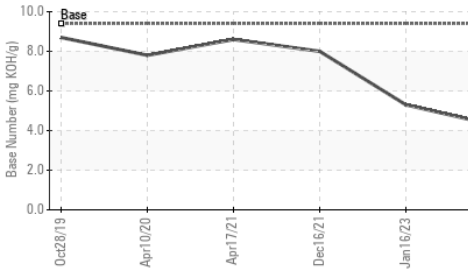
▲ Aluminum (ppm)



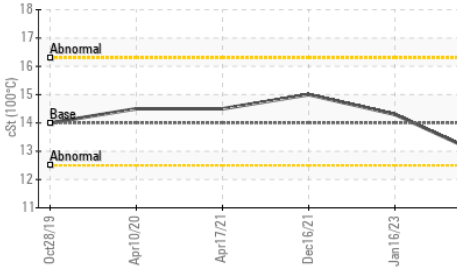
▲ Aluminum (ppm)



Base Number



Viscosity @ 100°C

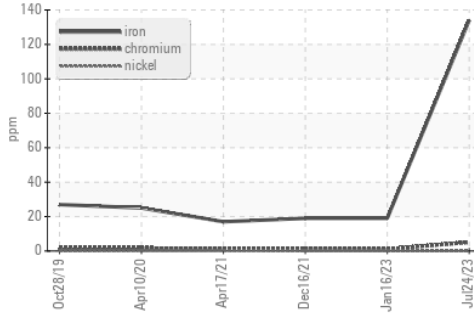


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

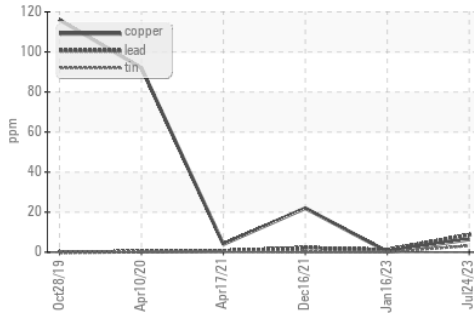
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14	12.9	14.3	15.0

### GRAPHS

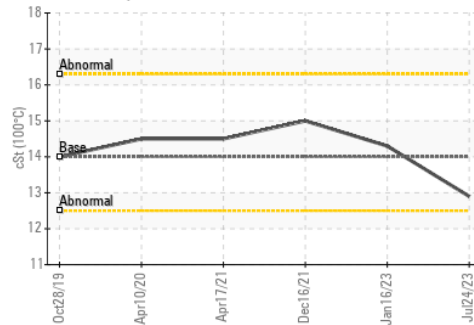
▲ Ferrous Alloys



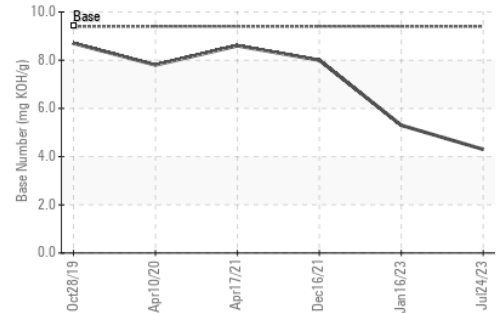
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0027065 **Received** : 25 Aug 2023  
**Lab Number** : 05935155 **Diagnosed** : 28 Aug 2023  
**Unique Number** : 10620426 **Diagnostician** : Don Baldrige  
**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

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)