



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**I4585**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0029417</b>	IL0033137	IL0024633
Sample Date		Client Info		<b>08 Feb 2024</b>	05 Dec 2023	13 Apr 2023
Machine Age	mls	Client Info		<b>0</b>	330447	0
Oil Age	mls	Client Info		<b>0</b>	25225	0
Filter Age	mls	Client Info		<b>0</b>	25225	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>36</b>	68	39
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>14</b>	9	10
Lead	ppm	ASTM D5185m	>40	<b>7</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>1</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

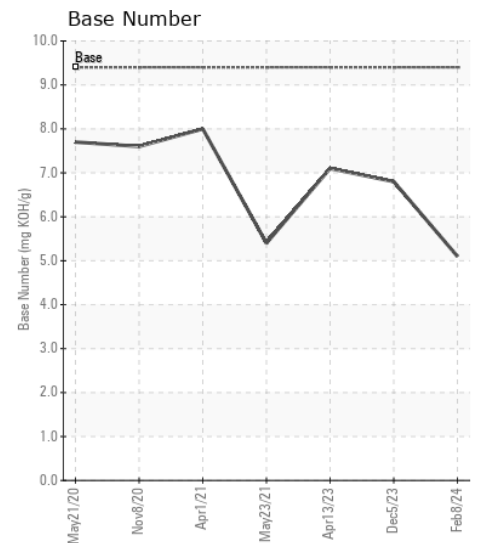
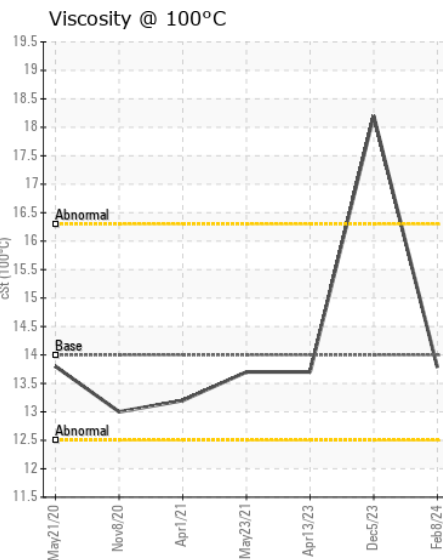
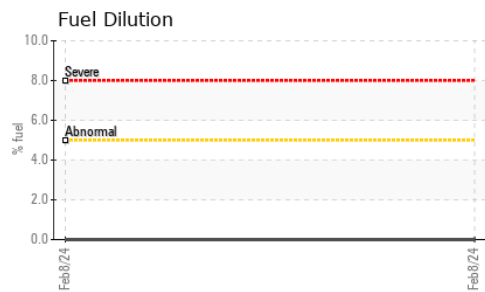
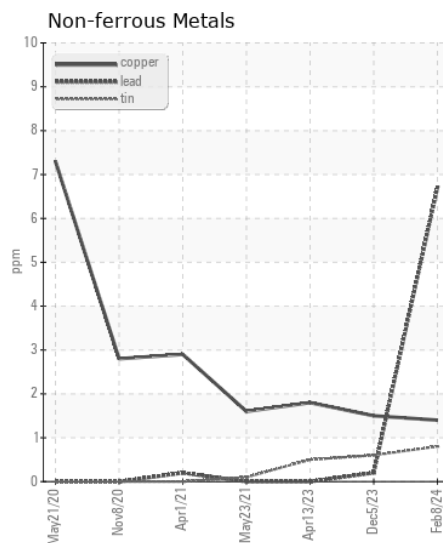
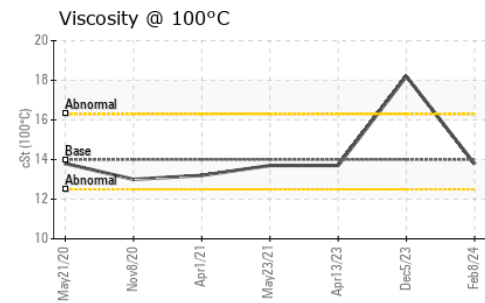
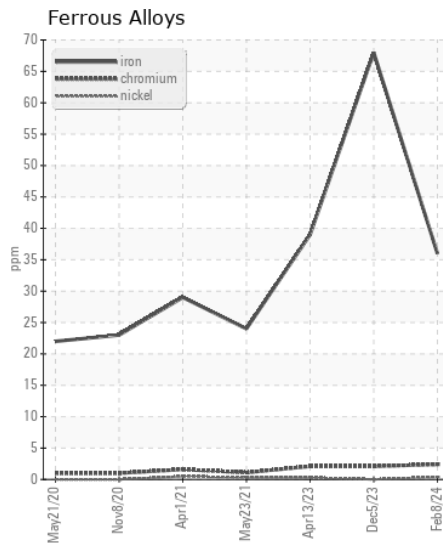
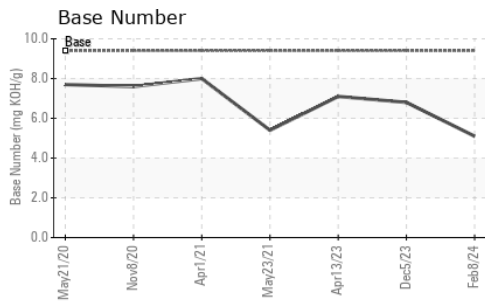
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>10</b>	12	7
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	5	9
Fuel	%	ASTM D3524	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	1.1	1
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.4</b>	19.4	13.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.9</b>	37.2	25.0
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### 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.

Sodium	ppm	ASTM D5185m		<b>6</b>	4	3
Boron	ppm	ASTM D5185m	0	<b>60</b>	87	49
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>172</b>	90	75
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>1126</b>	1026	709
Calcium	ppm	ASTM D5185m		<b>1976</b>	1810	1831
Phosphorus	ppm	ASTM D5185m		<b>1247</b>	1033	976
Zinc	ppm	ASTM D5185m		<b>1478</b>	1243	1223
Sulfur	ppm	ASTM D5185m		<b>4936</b>	3385	3598
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>27.9</b>	43.5	25.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>5.1</b>	6.8	7.1
Visc @ 100°C	cSt	ASTM D445	14	<b>13.78</b>	18.2	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : IL0029417

**Lab Number** : 06121363

**Unique Number** : 10930196

**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**Received** : 18 Mar 2024

**Tested** : 21 Mar 2024

**Diagnosed** : 21 Mar 2024 - Jonathan Hester

**RUSH TRUCK LEASING - BOISE IDEALEASE**

770 WEST AMITY ROAD

BOISE, ID

US 83705

Contact: MATT BORCHARDT

borchardtm@rushenterprises.com

T:

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)

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