



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

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

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0033137</b>	IL0024633	IL0014659
Sample Date		Client Info		<b>05 Dec 2023</b>	13 Apr 2023	23 May 2021
Machine Age	mls	Client Info		<b>330447</b>	0	0
Oil Age	mls	Client Info		<b>25225</b>	0	0
Filter Age	mls	Client Info		<b>25225</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>68</b>	39	24
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>9</b>	10	18
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<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.

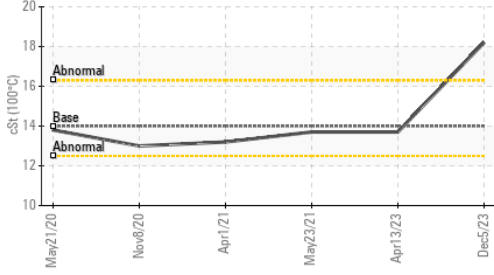
Silicon	ppm	ASTM D5185m	>25	<b>12</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	9	27
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1.1</b>	1	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>19.4</b>	13.7	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>37.2</b>	25.0	23.1
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

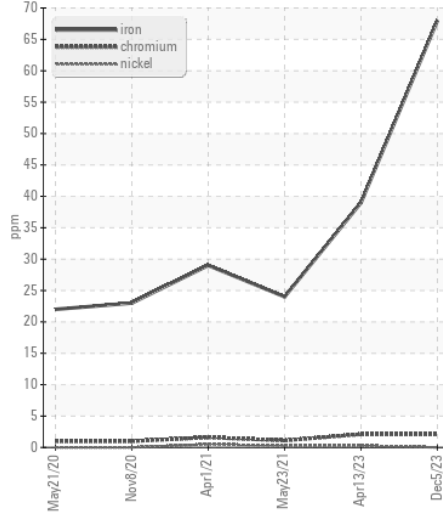
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		<b>4</b>	3	3
Boron	ppm	ASTM D5185m	0	<b>87</b>	49	41
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>90</b>	75	22
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>1026</b>	709	658
Calcium	ppm	ASTM D5185m		<b>1810</b>	1831	1468
Phosphorus	ppm	ASTM D5185m		<b>1033</b>	976	732
Zinc	ppm	ASTM D5185m		<b>1243</b>	1223	897
Sulfur	ppm	ASTM D5185m		<b>3385</b>	3598	2352
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>43.5</b>	25.1	19.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>6.8</b>	7.1	5.4
Visc @ 100°C	cSt	ASTM D445	14	<b>▲ 18.2</b>	13.7	13.7

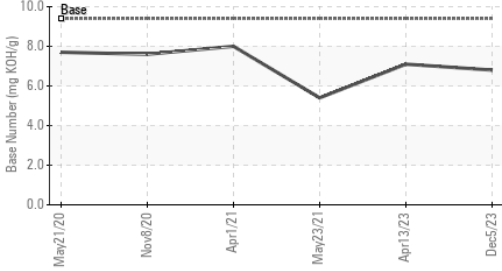
▲ Viscosity @ 100°C



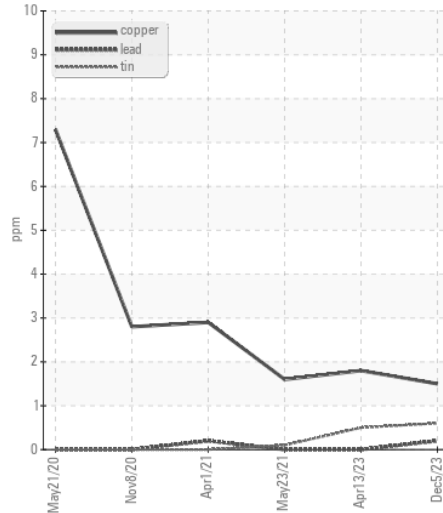
Ferrous Alloys



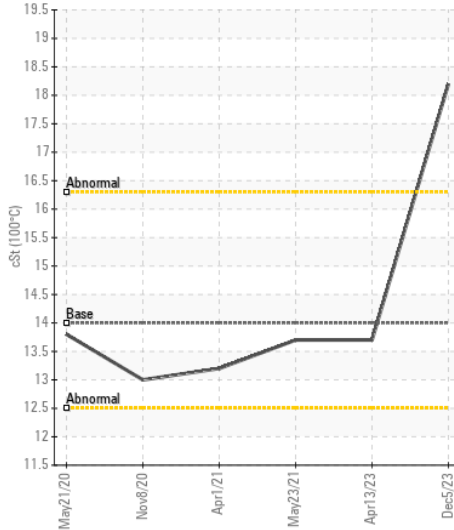
Base Number



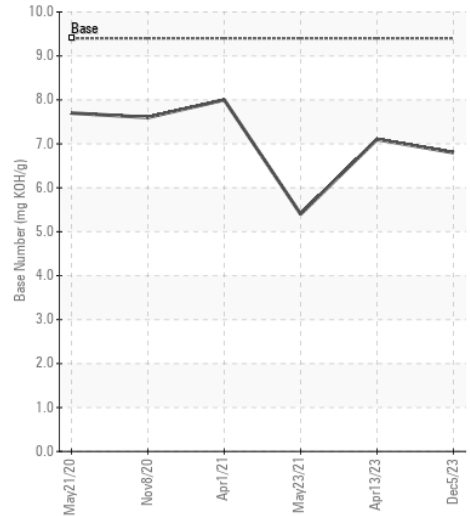
Non-ferrous Metals



▲ Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0033137 **Received** : 01 Feb 2024  
**Lab Number** : 06077494 **Diagnosed** : 04 Feb 2024  
**Unique Number** : 10859585 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**RUSH TRUCK LEASING - BOISE IDEALEASE**  
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 US 83705  
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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)