



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**441359**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (20 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample  
 Comment: Hours=4,463 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0033823</b>	IL0030457	IL0022891
Sample Date		Client Info		<b>15 Apr 2024</b>	04 Aug 2023	24 Aug 2022
Machine Age	mls	Client Info		<b>83434</b>	75711	68722
Oil Age	mls	Client Info		<b>0</b>	6989	7579
Filter Age	mls	Client Info		<b>0</b>	6989	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>26</b>	37	10
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</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>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>13</b>	16	5
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>1</b>	1	<1
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.

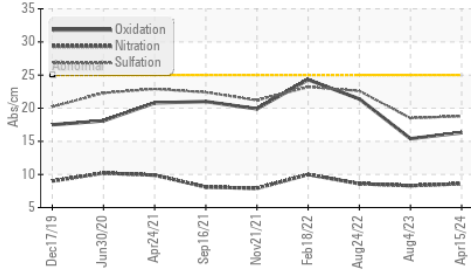
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	5	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	2.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	8.3	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.8</b>	18.5	22.6
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

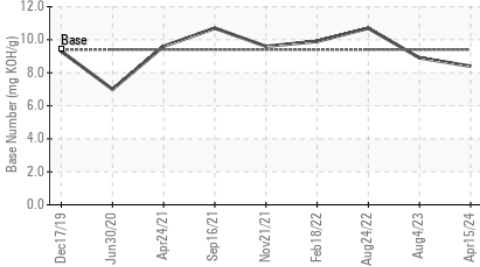
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	2	2
Boron	ppm	ASTM D5185m	0	<b>3</b>	3	26
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	0	<b>62</b>	62	44
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>961</b>	947	586
Calcium	ppm	ASTM D5185m		<b>1089</b>	1186	1333
Phosphorus	ppm	ASTM D5185m		<b>1023</b>	1033	741
Zinc	ppm	ASTM D5185m		<b>1240</b>	1219	934
Sulfur	ppm	ASTM D5185m		<b>3740</b>	3721	2417
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.3</b>	15.4	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>8.4</b>	8.9	10.7
Visc @ 100°C	cSt	ASTM D445	14	<b>12.2</b>	12.4	12.7

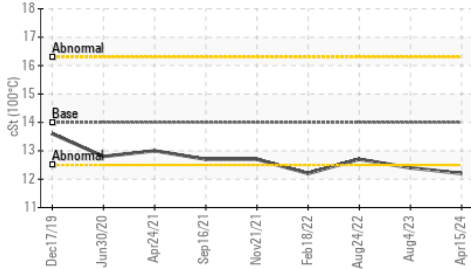
**FT-IR (Direct Trend)**



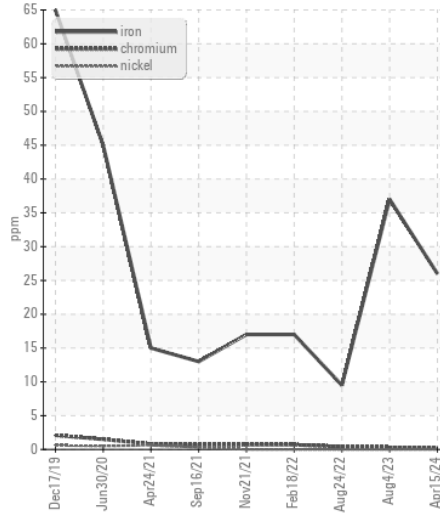
**Base Number**



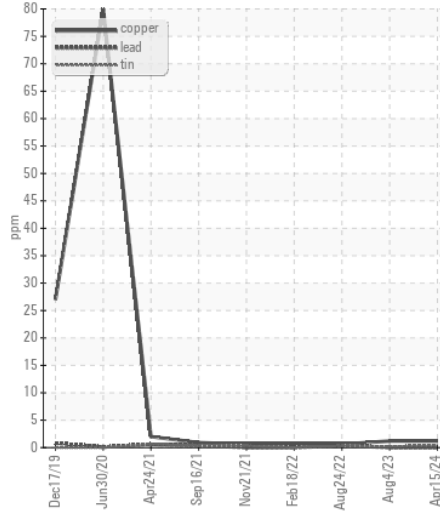
**Viscosity @ 100°C**



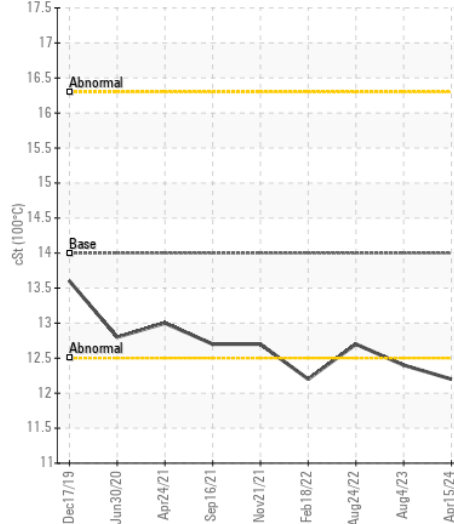
**Ferrous Alloys**



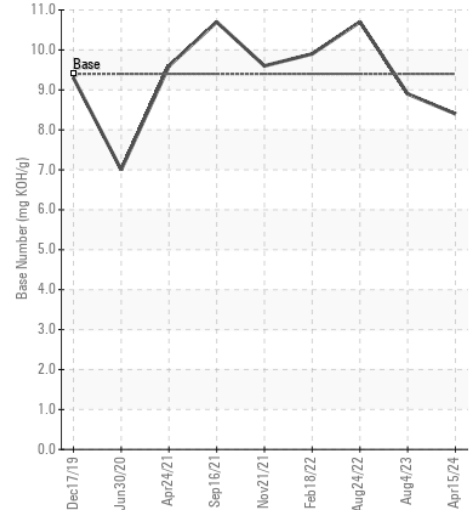
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0033823  
**Lab Number** : 06161167  
**Unique Number** : 10996590  
**Test Package** : FLEET  
**Received** : 26 Apr 2024  
**Tested** : 26 Apr 2024  
**Diagnosed** : 29 Apr 2024 - Sean Felton

**RUSH TRUCK LEASING - CHARLOTTE IDEALEASE**  
 1333 AMERON DR  
 CHARLOTTE, NC  
 US 28206  
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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)