



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**INTERNATIONAL 441301**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER 15W40 (21 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample  
 Comment: Hours=3,869 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0033870</b>	IL0026565	IL0022949
Sample Date		Client Info		<b>20 Jun 2024</b>	27 Apr 2023	28 Apr 2022
Machine Age	mls	Client Info		<b>119745</b>	114053	91927
Oil Age	mls	Client Info		<b>114053</b>	22126	3000
Filter Age	mls	Client Info		<b>0</b>	0	3000
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	>130	<b>35</b>	39	34
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	12	7
Lead	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>125	<b>8</b>	5	1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
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.

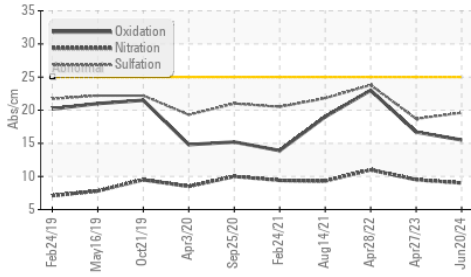
Silicon	ppm	ASTM D5185m	>25	<b>12</b>	10	8
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	5	4
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.5</b>	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.0</b>	9.5	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.6</b>	18.7	23.8
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

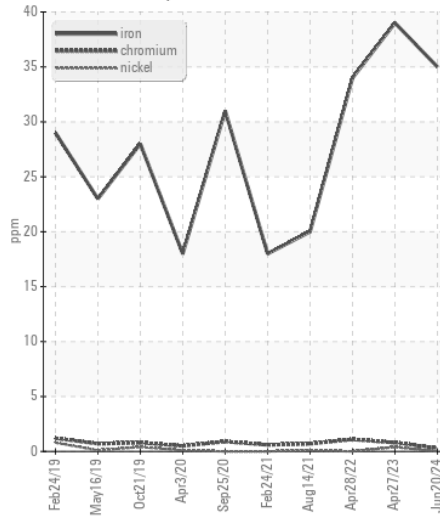
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	0	3
Boron	ppm	ASTM D5185m	0	<b>9</b>	7	36
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>67</b>	61	41
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>956</b>	822	491
Calcium	ppm	ASTM D5185m		<b>1155</b>	1175	1595
Phosphorus	ppm	ASTM D5185m		<b>1109</b>	981	725
Zinc	ppm	ASTM D5185m		<b>1241</b>	1200	922
Sulfur	ppm	ASTM D5185m		<b>3680</b>	3159	2109
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.5</b>	16.7	23.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>9.2</b>	7.2	9.2
Visc @ 100°C	cSt	ASTM D445	14	<b>12.6</b>	12.7	12.8

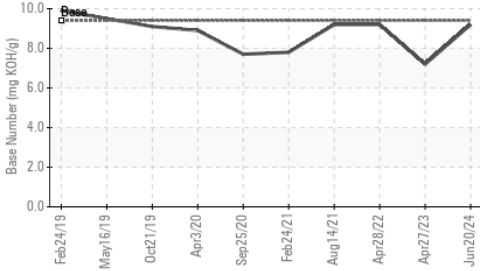
**FT-IR (Direct Trend)**



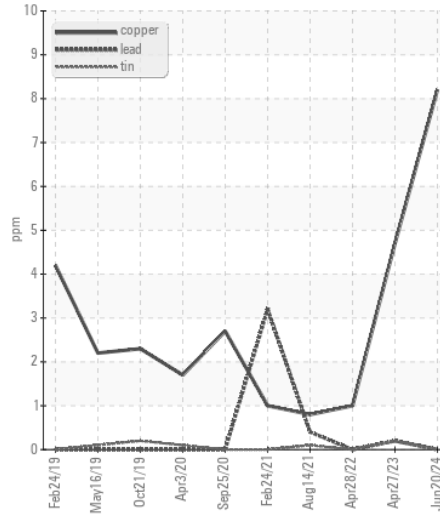
**Ferrous Alloys**



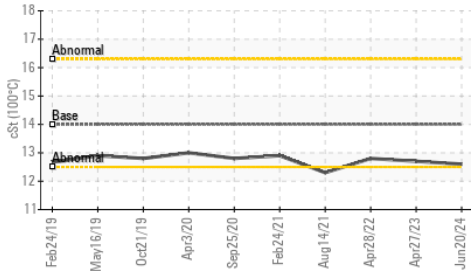
**Base Number**



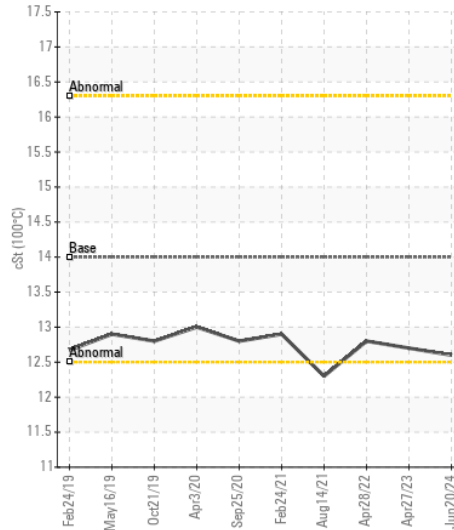
**Non-ferrous Metals**



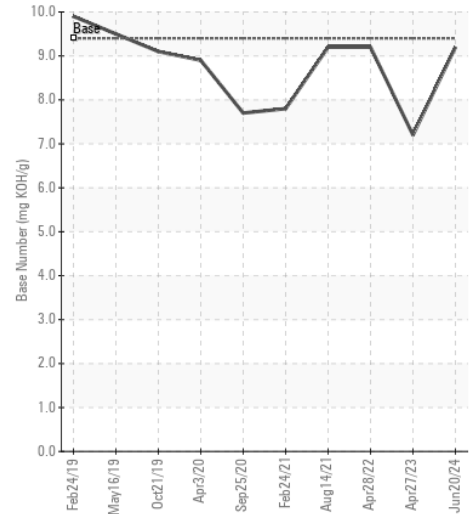
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

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

**Sample No.** : IL0033870

**Lab Number** : 06235396

**Unique Number** : 11124230

**Test Package** : FLEET

**Received** : 15 Jul 2024

**Tested** : 15 Jul 2024

**Diagnosed** : 15 Jul 2024 - Don Baldridge

**RUSH TRUCK LEASING - CHARLOTTE IDEALEASE**

1333 AMERON DR

CHARLOTTE, NC

US 28206

Contact: JERRY DIXON

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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)