



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

Machine Id  
**INTERNATIONAL 441315**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1300 SUPER 15W40 (42 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: Hoirs=6828 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0033879</b>	IL0026536	IL0022774
Sample Date		Client Info		<b>17 Jun 2024</b>	01 Apr 2023	13 May 2022
Machine Age	mls	Client Info		<b>139060</b>	118737	98412
Oil Age	mls	Client Info		<b>118737</b>	102754	15983
Filter Age	mls	Client Info		<b>0</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>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>33</b>	16	14
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	1	3
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>12</b>	2	1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
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.

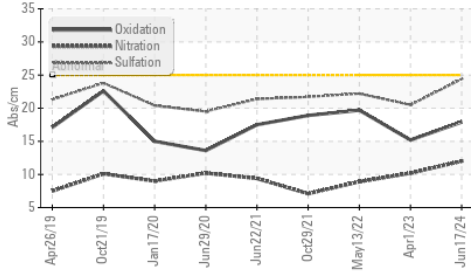
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	8	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Fuel		WC Method	>2.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>2</b>	1.3	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.0</b>	10.2	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.4</b>	20.5	22.2
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

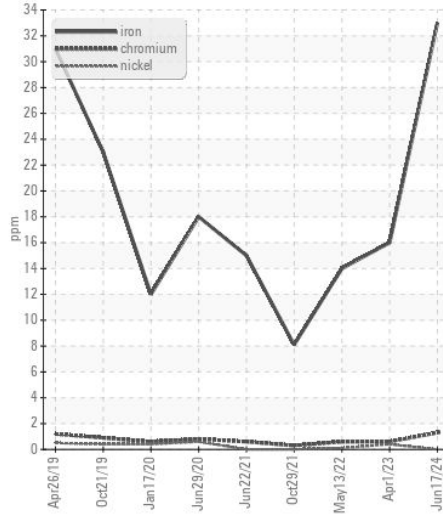
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	3
Boron	ppm	ASTM D5185m	0	<b>8</b>	34	32
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>67</b>	91	43
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>858</b>	191	492
Calcium	ppm	ASTM D5185m		<b>1276</b>	2104	1739
Phosphorus	ppm	ASTM D5185m		<b>967</b>	1017	760
Zinc	ppm	ASTM D5185m		<b>1240</b>	1219	932
Sulfur	ppm	ASTM D5185m		<b>3523</b>	3715	2529
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.9</b>	15.2	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>7.3</b>	6.0	9.2
Visc @ 100°C	cSt	ASTM D445	14	<b>13.7</b>	13.7	13.3

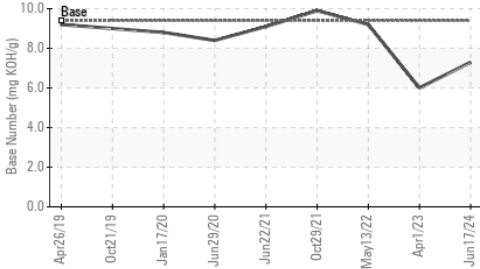
**FT-IR (Direct Trend)**



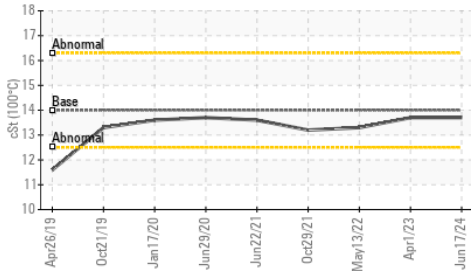
**Ferrous Alloys**



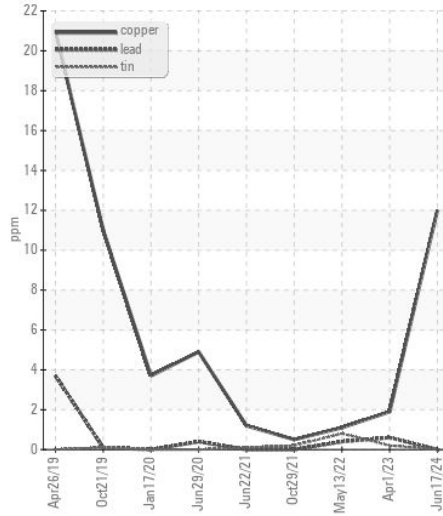
**Base Number**



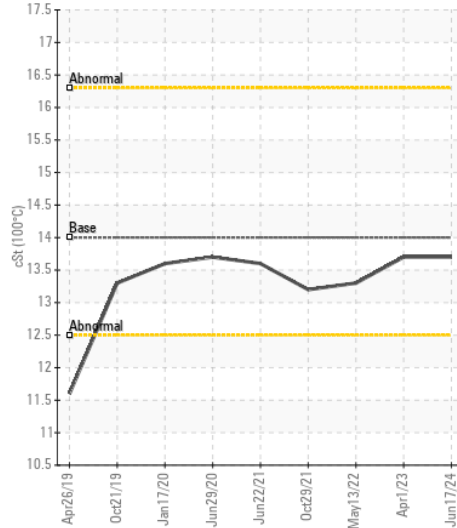
**Viscosity @ 100°C**



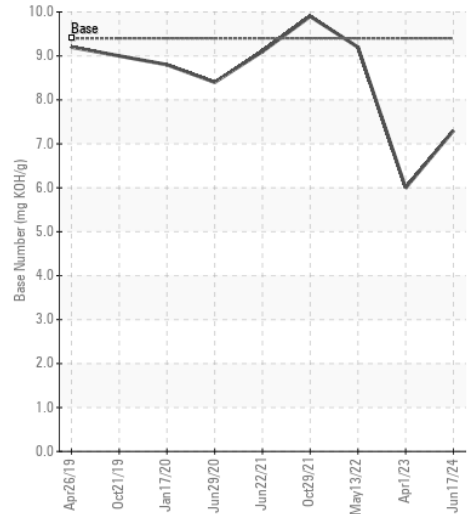
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

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

**Sample No.** : IL0033879

**Lab Number** : 06235399

**Unique Number** : 11124233

**Test Package** : FLEET

**Received** : 15 Jul 2024

**Tested** : 15 Jul 2024

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

**RUSH TRUCK LEASING - CHARLOTTE IDEALEASE**

1333 AMERON DR

CHARLOTTE, NC

US 28206

Contact: JERRY DIXON

dixonj@rushenterprises.com

T: (704)333-4507

F: (704)333-4508

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)