



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

Machine Id  
**INTERNATIONAL 516915**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (20 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample  
Comment: Hours=2,966 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0033945</b>	IL0030403	IL0030566
Sample Date		Client Info		<b>26 Jun 2024</b>	14 Mar 2024	22 Dec 2023
Machine Age	mls	Client Info		<b>114174</b>	97440	83980
Oil Age	mls	Client Info		<b>114174</b>	97440	83980
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>24</b>	13	27
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>15</b>	9	14
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>23</b>	6	38
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</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.

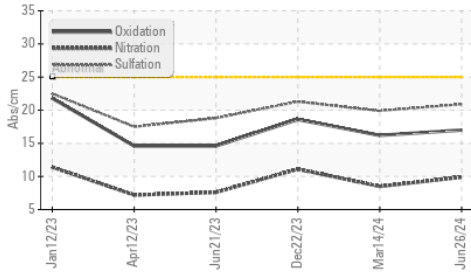
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	4	8
Potassium	ppm	ASTM D5185m	>20	<b>34</b>	13	32
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.7</b>	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.9</b>	8.5	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.9</b>	19.9	21.3
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

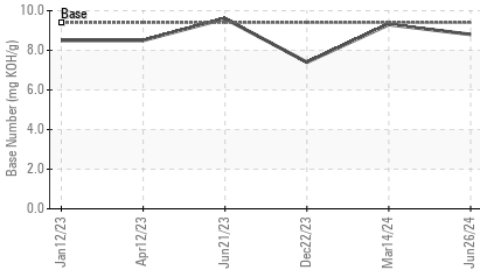
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	1	3
Boron	ppm	ASTM D5185m	0	<b>6</b>	5	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	0	<b>63</b>	64	65
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>957</b>	957	1034
Calcium	ppm	ASTM D5185m		<b>1185</b>	1092	1091
Phosphorus	ppm	ASTM D5185m		<b>1106</b>	1053	1059
Zinc	ppm	ASTM D5185m		<b>1295</b>	1278	1318
Sulfur	ppm	ASTM D5185m		<b>3644</b>	3680	3221
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.0</b>	16.2	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>8.8</b>	9.3	7.4
Visc @ 100°C	cSt	ASTM D445	14	<b>12.7</b>	12.5	12.4

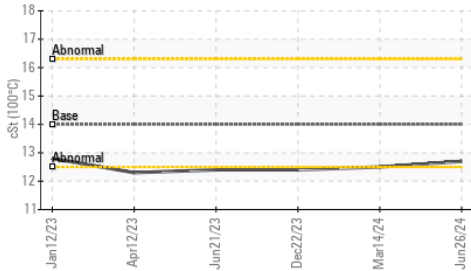
**FT-IR (Direct Trend)**



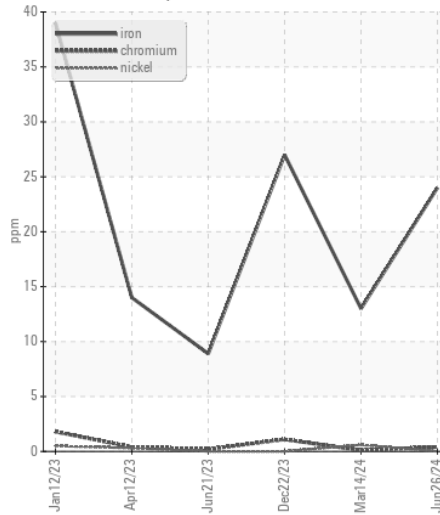
**Base Number**



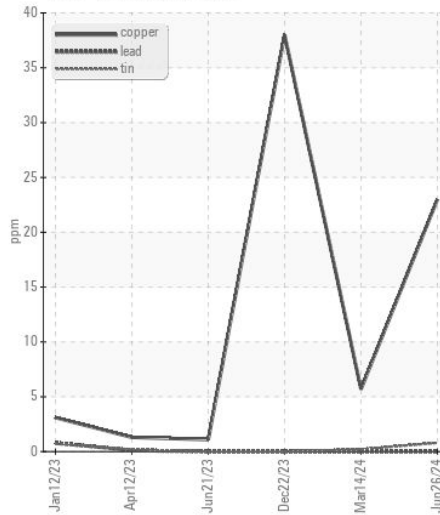
**Viscosity @ 100°C**



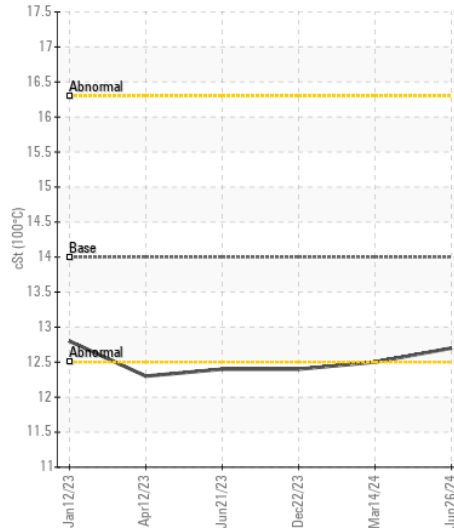
**Ferrous Alloys**



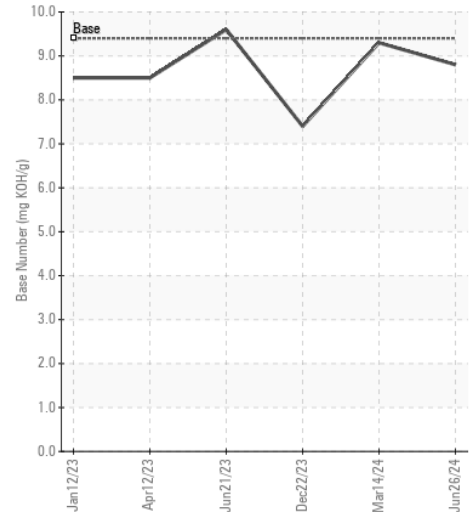
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

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

**Sample No.** : IL0033945

**Lab Number** : 06235355

**Unique Number** : 11124189

**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

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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)