



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**441914**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (22 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0036553</b>	IL0031102	IL0028256
Sample Date		Client Info		<b>15 Mar 2024</b>	23 Mar 2023	12 Jan 2023
Machine Age	mls	Client Info		<b>257359</b>	219203	205061
Oil Age	mls	Client Info		<b>20032</b>	14142	21394
Filter Age	mls	Client Info		<b>20032</b>	14142	21394
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>38</b>	28	42
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
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>15</b>	10	14
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	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.

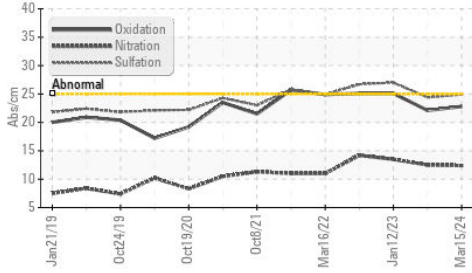
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	6	7
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	11	20
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1.2</b>	0.8	1.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.4</b>	12.5	13.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.9</b>	24.4	27.0
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

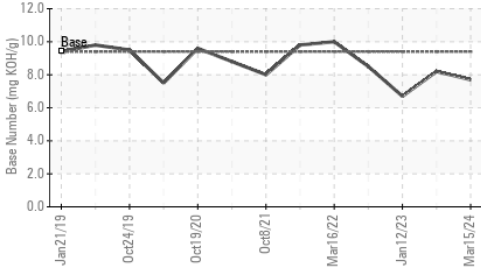
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	6	2
Boron	ppm	ASTM D5185m	0	<b>5</b>	6	18
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>67</b>	70	70
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>1045</b>	1007	906
Calcium	ppm	ASTM D5185m		<b>1190</b>	1153	1232
Phosphorus	ppm	ASTM D5185m		<b>1085</b>	1060	1009
Zinc	ppm	ASTM D5185m		<b>1350</b>	1316	1211
Sulfur	ppm	ASTM D5185m		<b>3543</b>	2943	2522
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.8</b>	22.1	25.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>7.7</b>	8.2	6.7
Visc @ 100°C	cSt	ASTM D445	14	<b>13.4</b>	13.8	14.4

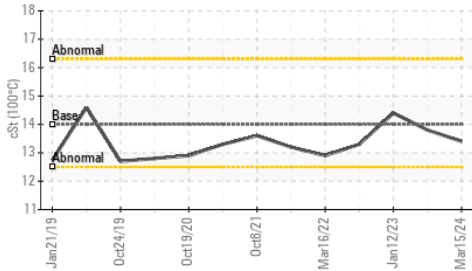
**FT-IR (Direct Trend)**



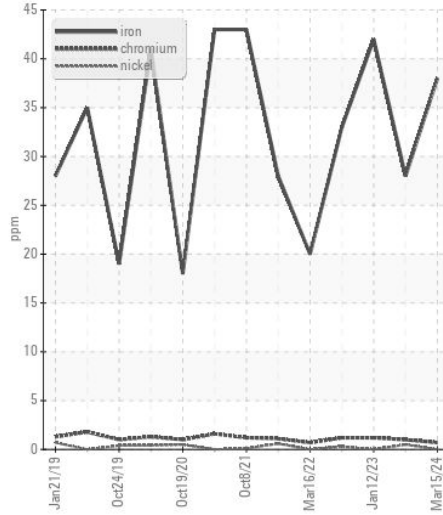
**Base Number**



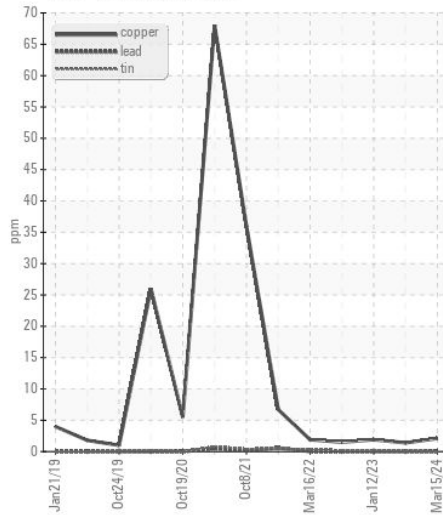
**Viscosity @ 100°C**



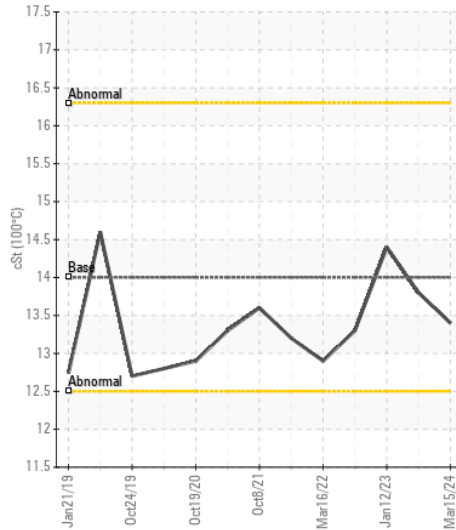
**Ferrous Alloys**



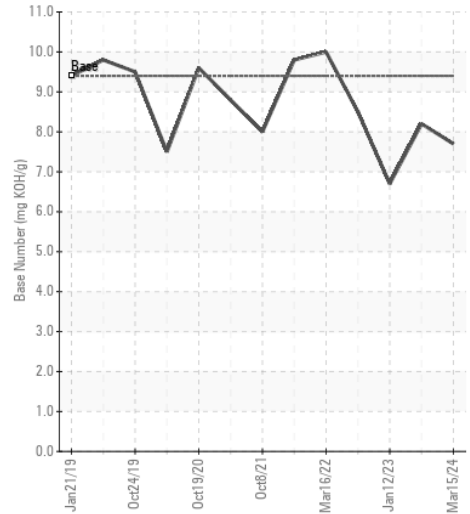
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

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

**Sample No.** : IL0036553

**Lab Number** : 06158295

**Unique Number** : 10993718

**Test Package** : FLEET

**Received** : 23 Apr 2024

**Tested** : 24 Apr 2024

**Diagnosed** : 25 Apr 2024 - Sean Felton

**RUSH TRUCK LEASING - CLEVELAND IDEALEASE**

5 ACORN DR

OAKWOOD VILLAGE, OH

US 44146-5550

Contact: JOHN FOSTER

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F: (440)439-5657

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)