



# OIL ANALYSIS REPORT

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

Machine Id  
**CUMMINS 846-4863**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (48 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0019298</b>	RPL0017362	RPL0015844
Sample Date		Client Info		<b>09 Apr 2024</b>	10 Jan 2024	26 Oct 2023
Machine Age	mls	Client Info		<b>121209</b>	107687	99103
Oil Age	mls	Client Info		<b>22106</b>	8584	99103
Filter Age	mls	Client Info		<b>22106</b>	8584	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>52</b>	13	65
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	3
Nickel	ppm	ASTM D5185m	>2	<b>2</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>14</b>	6	45
Lead	ppm	ASTM D5185m	>40	<b>4</b>	<1	5
Copper	ppm	ASTM D5185m	>330	<b>3</b>	1	7
Tin	ppm	ASTM D5185m	>15	<b>2</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</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.

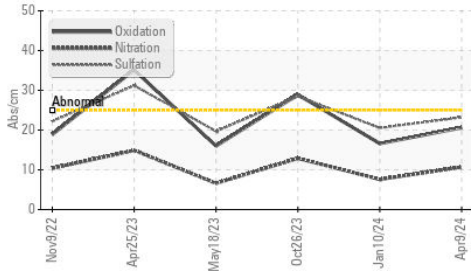
Silicon	ppm	ASTM D5185m	>25	<b>8</b>	5	15
Potassium	ppm	ASTM D5185m	>20	<b>38</b>	17	121
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.8</b>	0.4	1.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.7</b>	7.6	12.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.2</b>	20.5	28.5
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

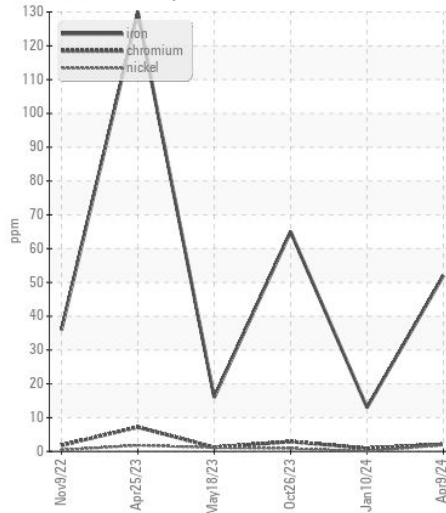
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	2
Boron	ppm	ASTM D5185m	0	<b>2</b>	2	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	0	<b>59</b>	57	62
Manganese	ppm	ASTM D5185m		<b>2</b>	0	1
Magnesium	ppm	ASTM D5185m	0	<b>870</b>	970	951
Calcium	ppm	ASTM D5185m		<b>1172</b>	1048	1166
Phosphorus	ppm	ASTM D5185m		<b>1099</b>	1055	968
Zinc	ppm	ASTM D5185m		<b>1220</b>	1244	1234
Sulfur	ppm	ASTM D5185m		<b>3464</b>	3228	2813
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.6</b>	16.6	28.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>6.9</b>	8.9	5.1
Visc @ 100°C	cSt	ASTM D445	14	<b>12.8</b>	12.8	13.8

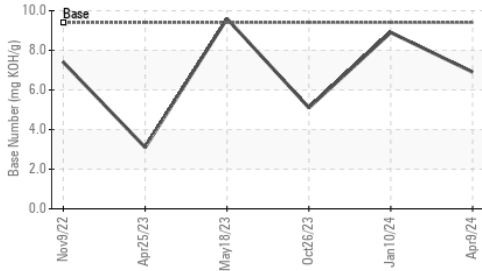
**FT-IR (Direct Trend)**



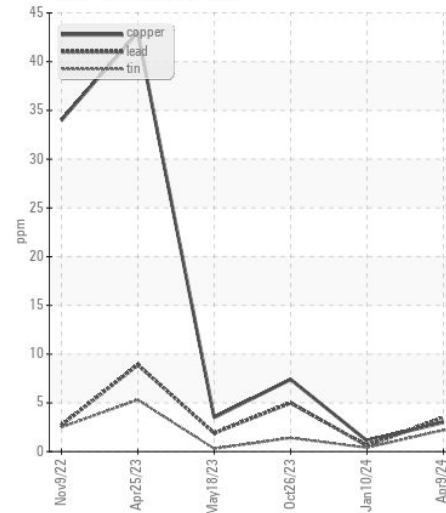
**Ferrous Alloys**



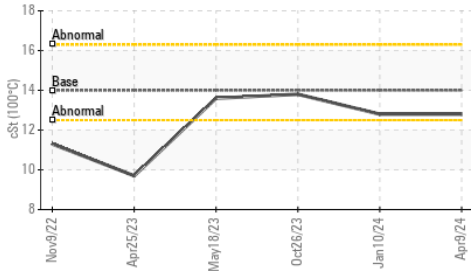
**Base Number**



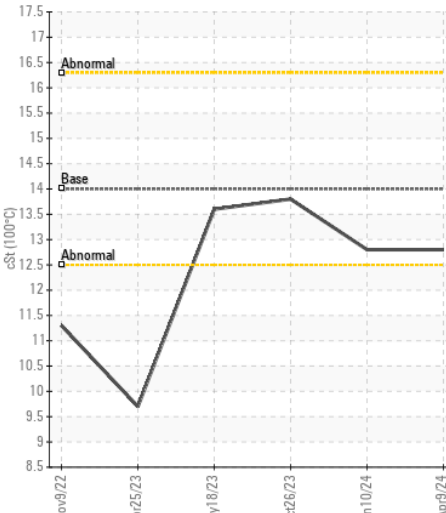
**Non-ferrous Metals**



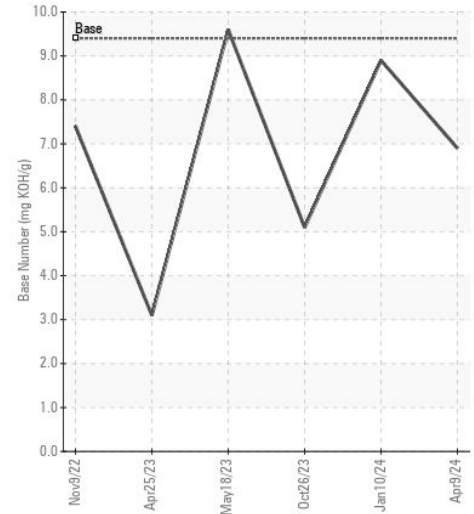
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0019298  
**Lab Number** : 06152936  
**Unique Number** : 10983014  
**Test Package** : FLEET

**Received** : 18 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 22 Apr 2024 - Sean Felton

**RTL PACLEASE - 7006 - Pico Rivera**  
 7837 Telegraph Rd  
 Pico Rivera, CA  
 US 90660  
 Contact: GERARDO CARROLA  
 carrolag@rushenterprises.com

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)

T:  
F: