



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**CUMMINS 846-5057**  
 Component  
**1 Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (46 QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0017962</b>	RPL0017427	RPL0015553
Sample Date		Client Info		<b>01 Mar 2024</b>	27 Dec 2023	26 Sep 2023
Machine Age	mls	Client Info		<b>23693</b>	20995	16844
Oil Age	mls	Client Info		<b>23693</b>	20995	8239
Filter Age	mls	Client Info		<b>23693</b>	20995	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>51</b>	38	29
Chromium	ppm	ASTM D5185m	>20	<b>4</b>	3	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>13</b>	11	0
Lead	ppm	ASTM D5185m	>40	<b>11</b>	8	3
Copper	ppm	ASTM D5185m	>330	<b>42</b>	37	36
Tin	ppm	ASTM D5185m	>15	<b>5</b>	3	2
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

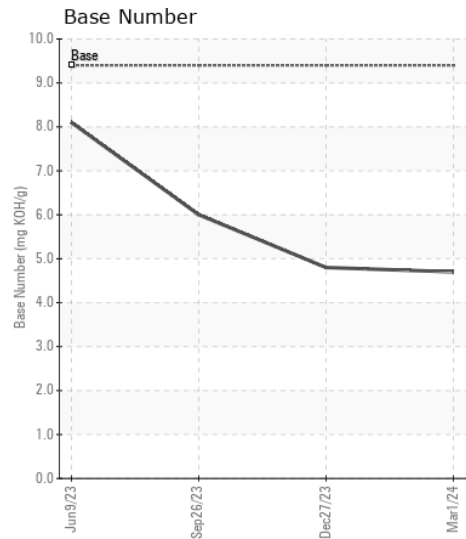
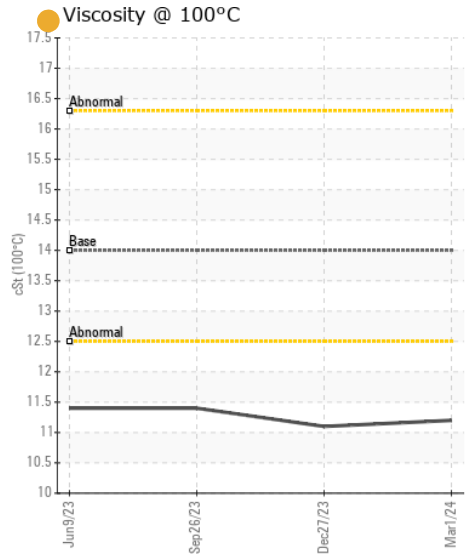
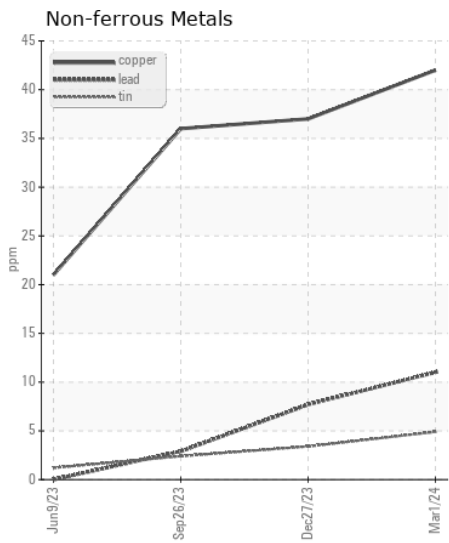
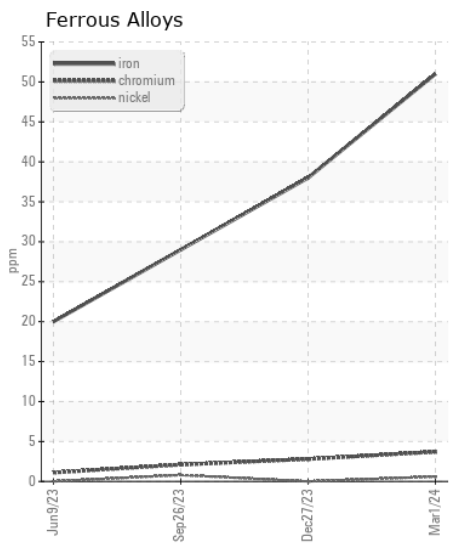
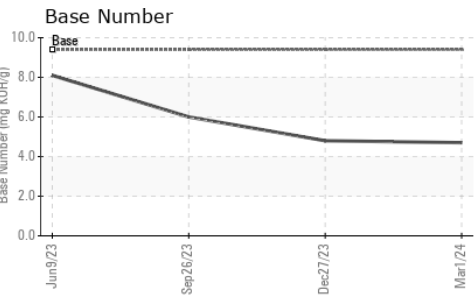
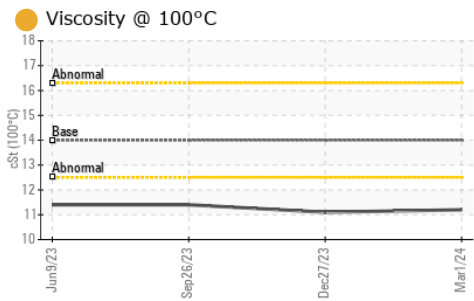
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>45</b>	43	43
Potassium	ppm	ASTM D5185m	>20	<b>52</b>	41	43
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>0.4</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.7</b>	11.1	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.5</b>	23.2	20.5
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>5</b>	4	2
Boron	ppm	ASTM D5185m	0	<b>24</b>	28	43
Barium	ppm	ASTM D5185m	0	<b>3</b>	3	6
Molybdenum	ppm	ASTM D5185m	0	<b>19</b>	17	18
Manganese	ppm	ASTM D5185m		<b>6</b>	5	5
Magnesium	ppm	ASTM D5185m	0	<b>741</b>	785	645
Calcium	ppm	ASTM D5185m		<b>1290</b>	1301	1203
Phosphorus	ppm	ASTM D5185m		<b>716</b>	765	664
Zinc	ppm	ASTM D5185m		<b>914</b>	890	784
Sulfur	ppm	ASTM D5185m		<b>2732</b>	2567	2442
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.0</b>	21.6	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>4.7</b>	4.8	6.0
Visc @ 100°C	cSt	ASTM D445	14	<b>11.2</b>	11.1	11.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0017962  
**Lab Number** : 06121984  
**Unique Number** : 10936135  
**Test Package** : FLEET

**Received** : 19 Mar 2024  
**Tested** : 19 Mar 2024  
**Diagnosed** : 21 Mar 2024 - Don Baldrige

**RTL PACLEASE - 7006 - Pico Rivera**  
 7837 Telegraph Rd  
 Pico Rivera, CA  
 US 90660  
 Contact: FRANK MARIN  
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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)