



# OIL ANALYSIS REPORT

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

Machine Id  
**CUMMINS 846-4573**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (46 QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0019332</b>	RPL0016807	RPL0014985
Sample Date		Client Info		<b>19 Apr 2024</b>	07 Dec 2023	30 Aug 2023
Machine Age	mls	Client Info		<b>16653</b>	12148	12004
Oil Age	mls	Client Info		<b>4649</b>	144	12004
Filter Age	mls	Client Info		<b>4649</b>	144	12004
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>ATTENTION</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>165	<b>13</b>	<1	4
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	1	0
Lead	ppm	ASTM D5185m	>150	<b>2</b>	0	0
Copper	ppm	ASTM D5185m	>90	<b>1</b>	1	<1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<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

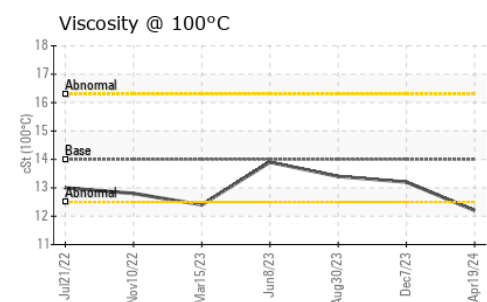
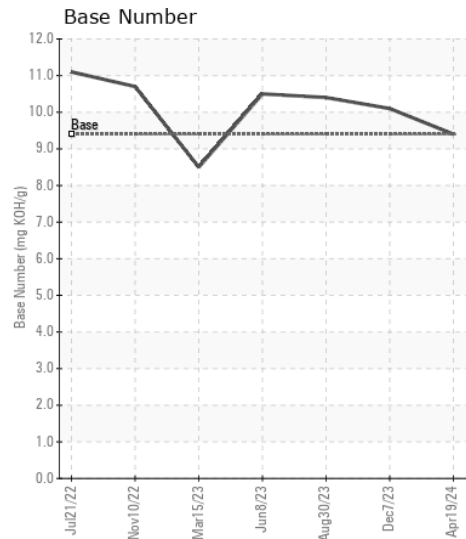
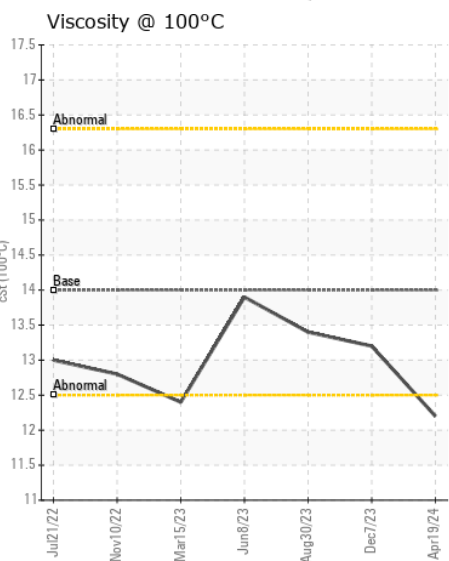
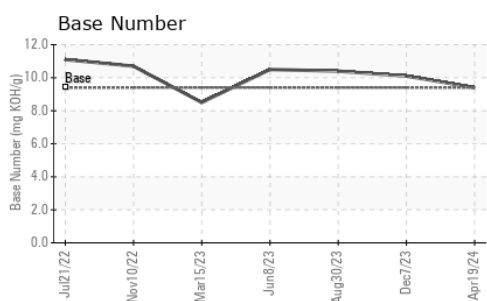
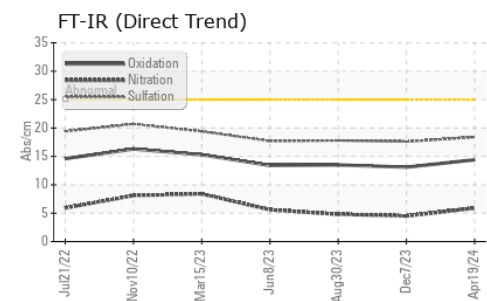
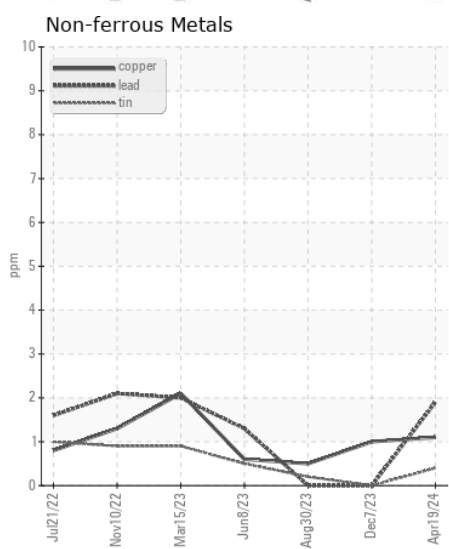
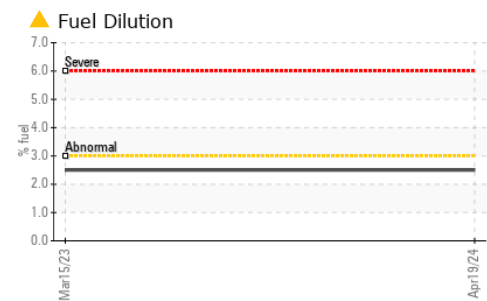
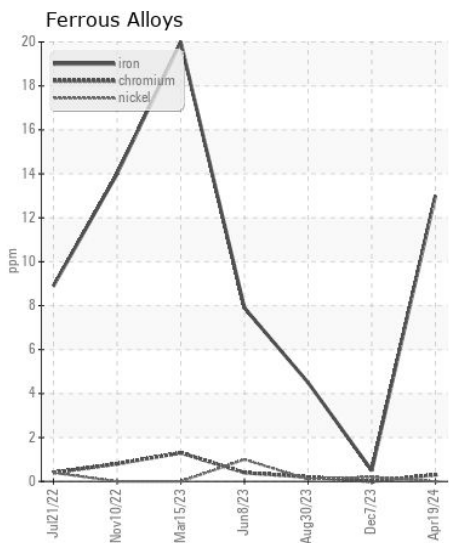
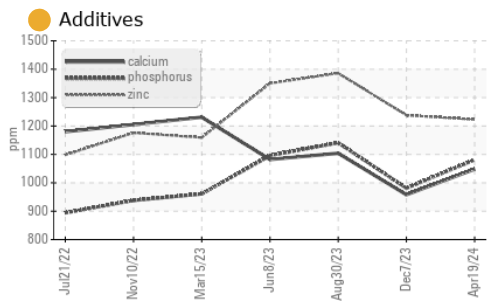
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>4</b>	3	4
Potassium	ppm	ASTM D5185m	>20	<b>29</b>	3	4
Fuel	%	ASTM D3524	>3.0	<b>▲ 2.5</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	>7.5	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.9</b>	4.5	4.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.4</b>	17.6	17.8
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

Additive levels indicate the addition of a different brand, or type of oil. 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>&lt;1</b>	<1	1
Boron	ppm	ASTM D5185m	0	<b>5</b>	2	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>61</b>	54	59
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>● 950</b>	912	1007
Calcium	ppm	ASTM D5185m		<b>● 1048</b>	958	1104
Phosphorus	ppm	ASTM D5185m		<b>● 1081</b>	981	1141
Zinc	ppm	ASTM D5185m		<b>1223</b>	1238	1386
Sulfur	ppm	ASTM D5185m		<b>3744</b>	3273	4413
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.4</b>	13.1	13.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>9.4</b>	10.1	10.4
Visc @ 100°C	cSt	ASTM D445	14	<b>12.2</b>	13.2	13.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0019332 **Received** : 10 May 2024  
**Lab Number** : 06175314 **Tested** : 15 May 2024  
**Unique Number** : 11021367 **Diagnosed** : 15 May 2024 - Wes Davis  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

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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)