



# OIL ANALYSIS REPORT

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

Machine Id  
**CUMMINS 8465034**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

## RECOMMENDATION

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0020382</b>	RPL0017925	RPL0016305
Sample Date		Client Info		<b>17 May 2024</b>	23 Feb 2024	03 Nov 2023
Machine Age	mls	Client Info		<b>9196</b>	1366	4756
Oil Age	mls	Client Info		<b>9196</b>	0	4756
Filter Age	mls	Client Info		<b>9196</b>	0	4756
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>105</b>	74	52
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>12</b>	9	8
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>74</b>	69	67
Tin	ppm	ASTM D5185m	>15	<b>1</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

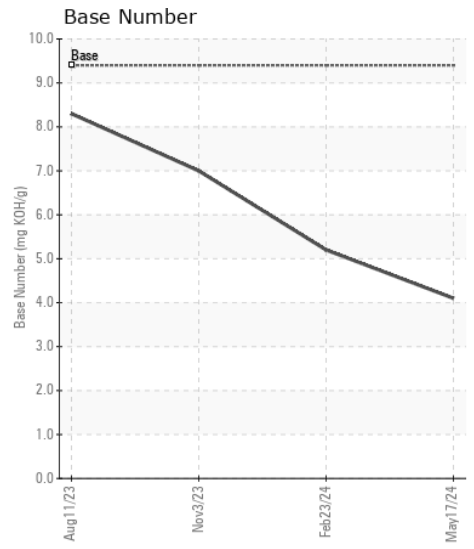
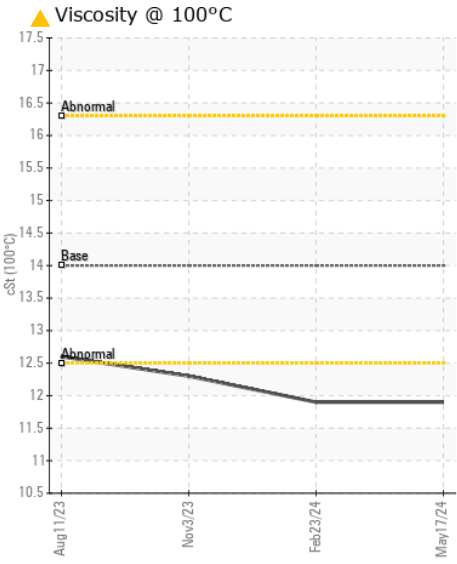
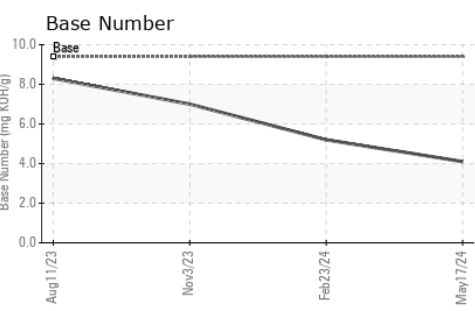
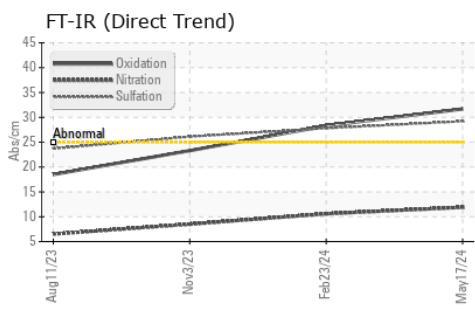
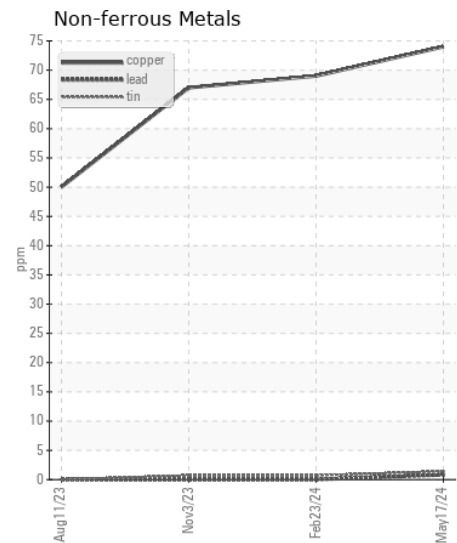
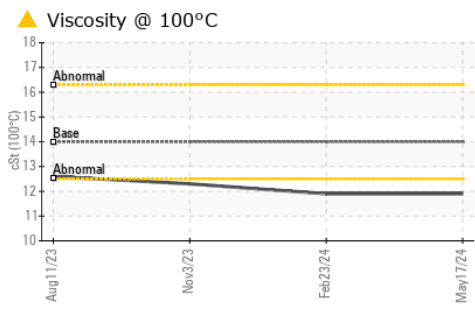
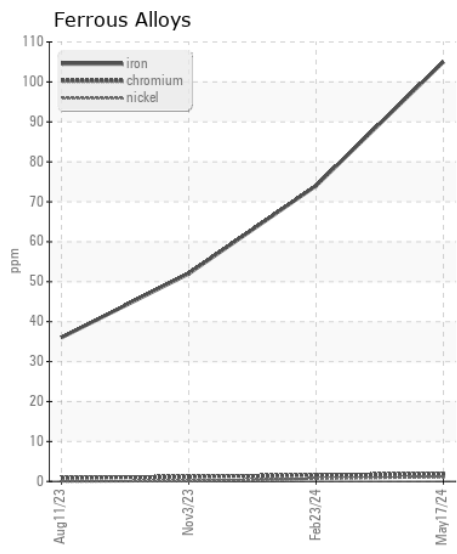
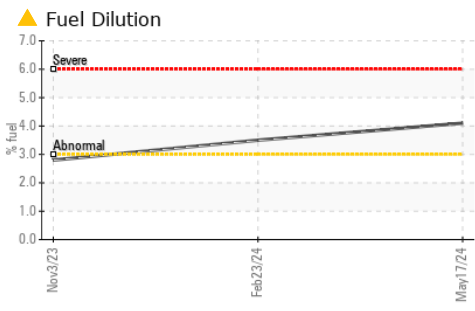
There is a moderate amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>32</b>	29	29
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	2	3
Fuel	%	ASTM D3524	>3.0	<b>▲ 4.1</b>	▲ 3.5	▲ 2.8
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>	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.9</b>	10.6	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.2</b>	27.8	26.1
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

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		<b>6</b>	5	4
Boron	ppm	ASTM D5185m	0	<b>114</b>	144	● 225
Barium	ppm	ASTM D5185m	0	<b>6</b>	8	5
Molybdenum	ppm	ASTM D5185m	0	<b>108</b>	104	● 107
Manganese	ppm	ASTM D5185m		<b>8</b>	7	6
Magnesium	ppm	ASTM D5185m	0	<b>686</b>	649	675
Calcium	ppm	ASTM D5185m		<b>1426</b>	1346	1378
Phosphorus	ppm	ASTM D5185m		<b>627</b>	638	663
Zinc	ppm	ASTM D5185m		<b>829</b>	801	821
Sulfur	ppm	ASTM D5185m		<b>2515</b>	2247	● 2283
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>31.7</b>	28.3	23.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>4.1</b>	5.2	7.0
Visc @ 100°C	cSt	ASTM D445	14	<b>▲ 11.9</b>	▲ 11.9	12.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0020382 **Received** : 24 May 2024  
**Lab Number** : 06190193 **Tested** : 30 May 2024  
**Unique Number** : 11046945 **Diagnosed** : 30 May 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

**RTL PACLEASE - 7006 - Pico Rivera**  
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Certificate L2367  
 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)