



# OIL ANALYSIS REPORT

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

Machine Id  
**CUMMINS 8464564**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)**

## RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0021925</b>	RPL0019379	RPL0017394
Sample Date		Client Info		<b>22 Jun 2024</b>	30 Mar 2024	13 Jan 2024
Machine Age	mls	Client Info		<b>186844</b>	177684	169053
Oil Age	mls	Client Info		<b>153688</b>	8631	157415
Filter Age	mls	Client Info		<b>12532</b>	8631	12532
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>29</b>	11	33
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>12</b>	8	17
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>3</b>	2	3
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

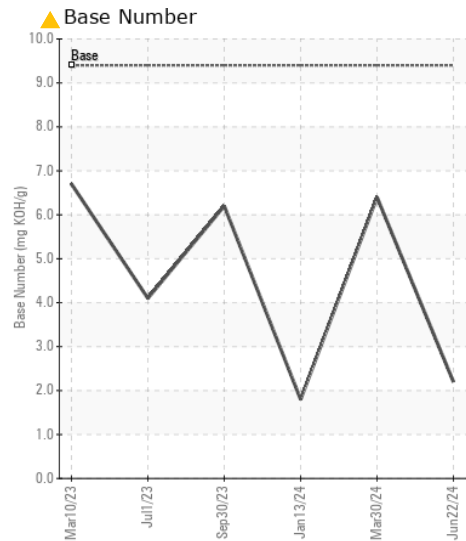
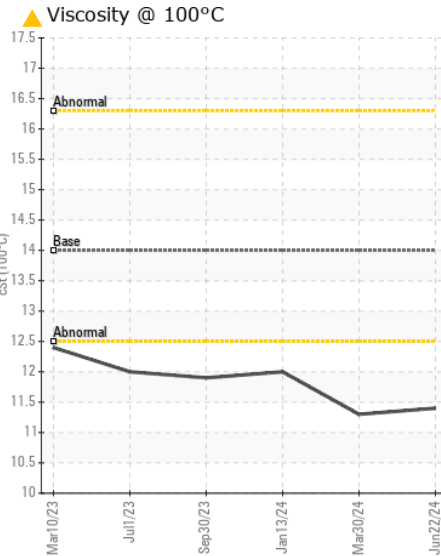
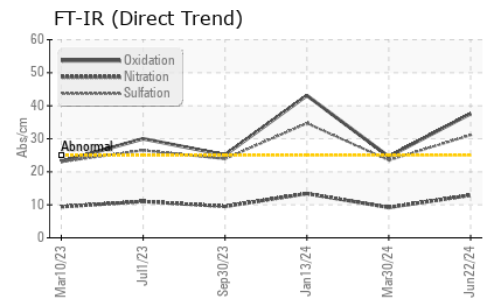
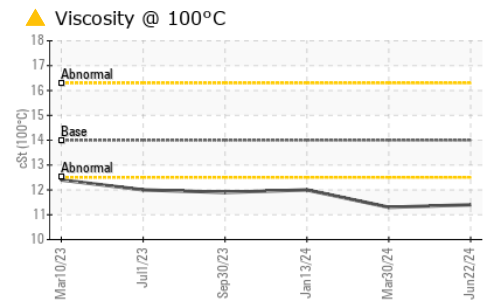
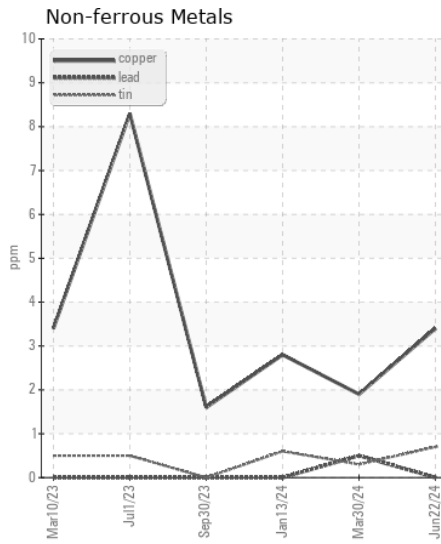
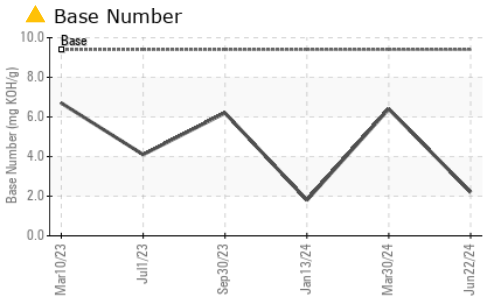
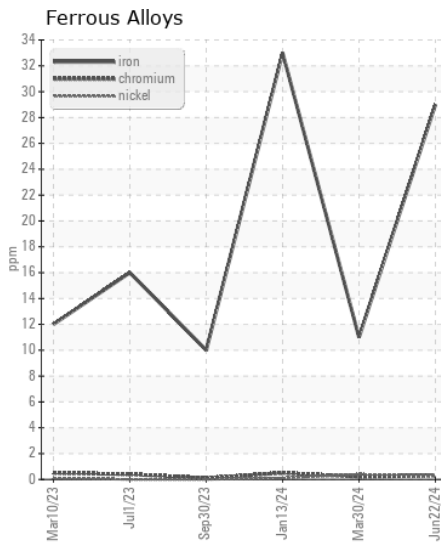
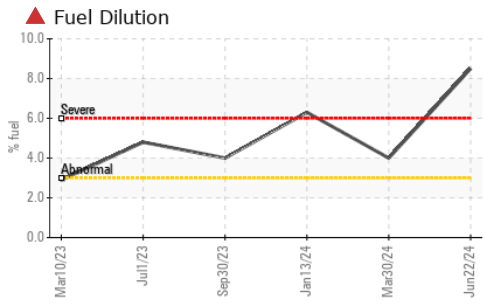
There is a high amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	3	5
Potassium	ppm	ASTM D5185m	>20	<b>28</b>	17	42
Fuel	%	ASTM D3524	>3.0	<b>▲ 8.5</b>	▲ 4.0	▲ 6.3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.3</b>	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.9</b>	9.2	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>31.1</b>	23.5	34.7
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 level is low.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	0
Boron	ppm	ASTM D5185m	0	<b>4</b>	0	1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	3
Molybdenum	ppm	ASTM D5185m	0	<b>62</b>	61	58
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>991</b>	1012	922
Calcium	ppm	ASTM D5185m		<b>1137</b>	1129	1074
Phosphorus	ppm	ASTM D5185m		<b>1004</b>	1078	985
Zinc	ppm	ASTM D5185m		<b>1327</b>	1301	1194
Sulfur	ppm	ASTM D5185m		<b>3633</b>	3654	3193
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>37.6</b>	24.6	43.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>▲ 2.2</b>	6.4	▲ 1.8
Visc @ 100°C	cSt	ASTM D445	14	<b>▲ 11.4</b>	▲ 11.3	▲ 12.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0021925 **Received** : 12 Jul 2024  
**Lab Number** : 06234461 **Tested** : 16 Jul 2024  
**Unique Number** : 11123295 **Diagnosed** : 16 Jul 2024 - Sean Felton  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

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

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F: