



# OIL ANALYSIS REPORT

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

Machine Id  
**39**  
 Component  
**Diesel Engine**  
 Fluid  
**DURAMAX 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0033574</b>	DC0020768	DC0012230
Sample Date		Client Info		<b>29 Mar 2024</b>	31 May 2022	07 Oct 2021
Machine Age	mls	Client Info		<b>277809</b>	230280	200280
Oil Age	mls	Client Info		<b>25000</b>	30000	30170
Filter Age	mls	Client Info		<b>25000</b>	30000	30170
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>15</b>	17	13
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	5	5
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

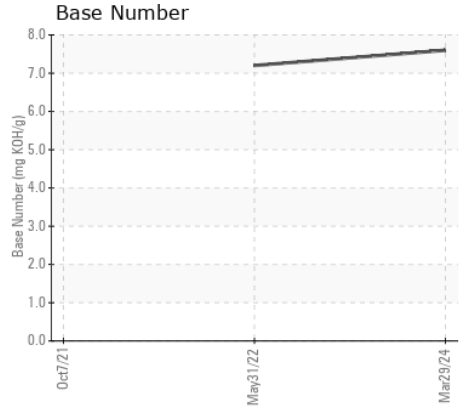
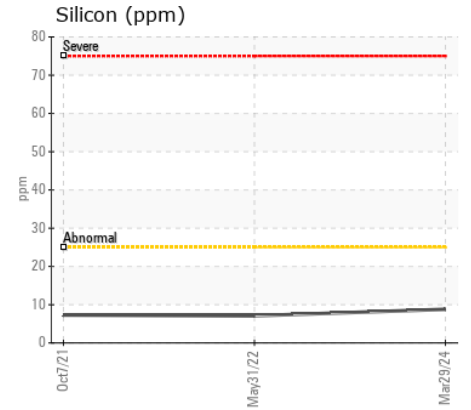
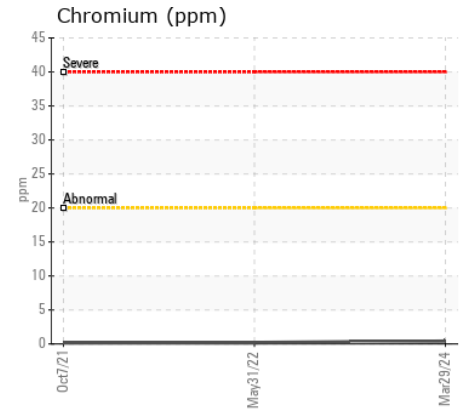
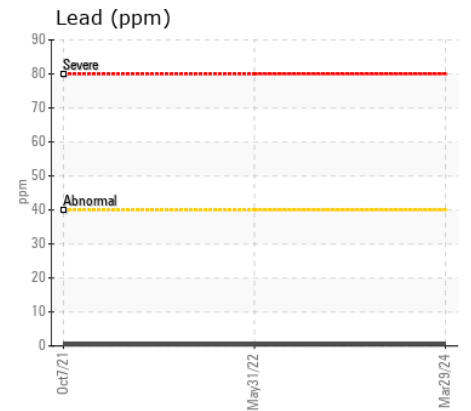
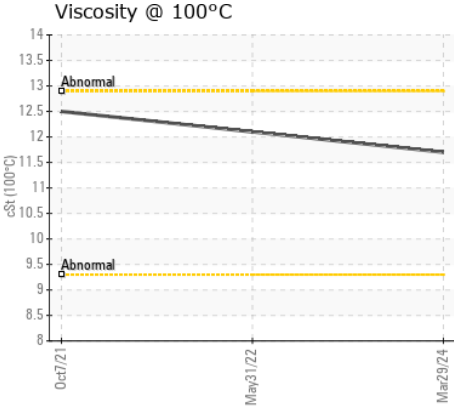
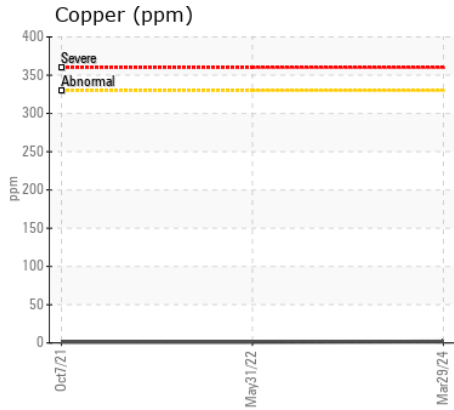
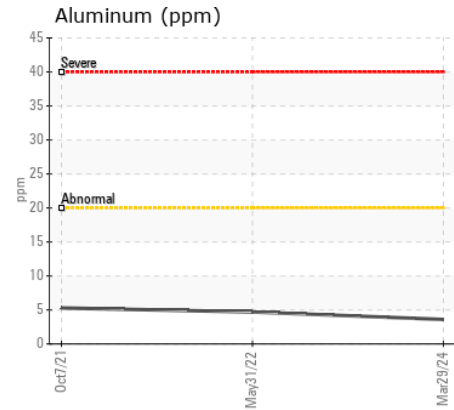
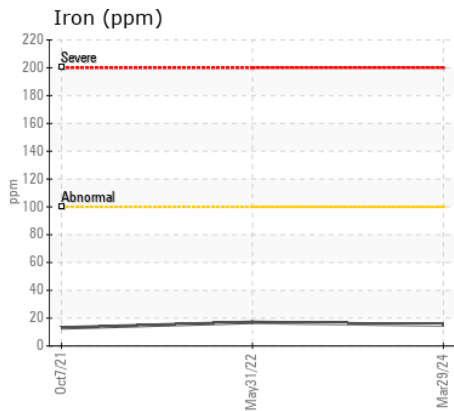
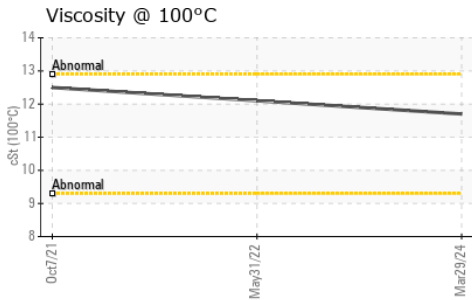
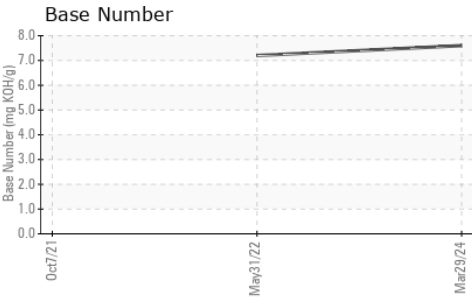
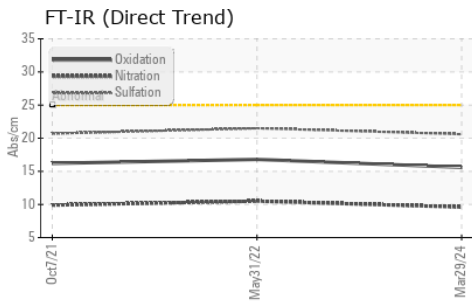
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>9</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	5	13
Fuel		WC Method	>5	<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	>3	<b>0.6</b>	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.6</b>	10.5	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.6</b>	21.5	20.7
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

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>0</b>	1	1
Boron	ppm	ASTM D5185m		<b>2</b>	4	0
Barium	ppm	ASTM D5185m		<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>60</b>	57	58
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>822</b>	888	943
Calcium	ppm	ASTM D5185m		<b>1245</b>	1173	1231
Phosphorus	ppm	ASTM D5185m		<b>1008</b>	976	1033
Zinc	ppm	ASTM D5185m		<b>1136</b>	1220	1240
Sulfur	ppm	ASTM D5185m		<b>3089</b>	2942	2753
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.6</b>	16.8	16.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.6</b>	7.2	---
Visc @ 100°C	cSt	ASTM D445		<b>11.7</b>	12.1	12.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0033574 **Received** : 10 May 2024  
**Lab Number** : 06176570 **Tested** : 13 May 2024  
**Unique Number** : 11022623 **Diagnosed** : 13 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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)

**MERCER VU FARMS**  
 12275 MT PLEASANT RD  
 MERCERSBURG, PA  
 US 17236  
 Contact: RYAN LEASURE  
 ryanleasure@yahoo.com  
 T: (717)404-5913  
 F: