



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**BUS 74**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 40 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0850965</b>	WC0867951	---
Sample Date		Client Info		<b>14 Apr 2024</b>	01 Jan 2024	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>52</b>	36	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>15</b>	16	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	62	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

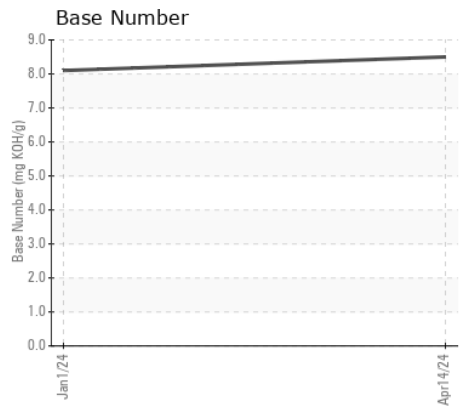
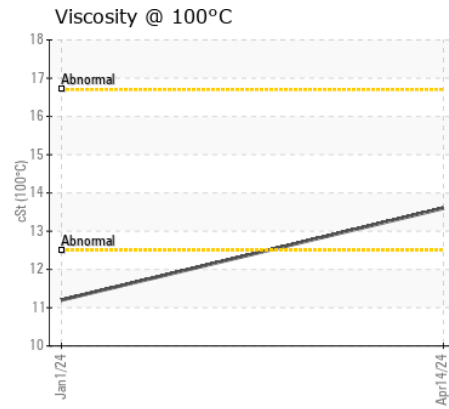
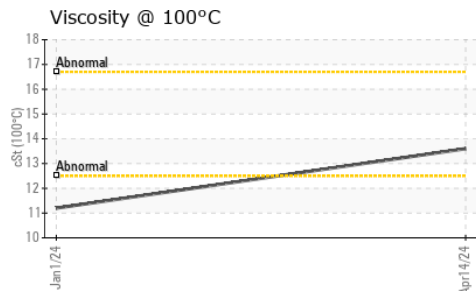
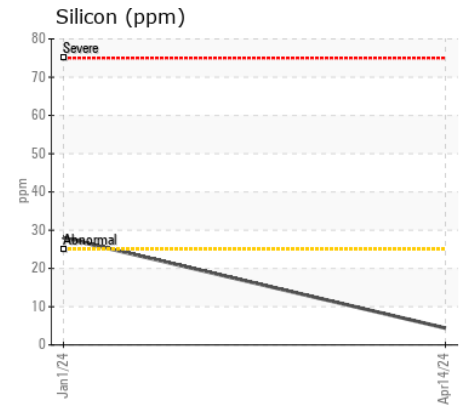
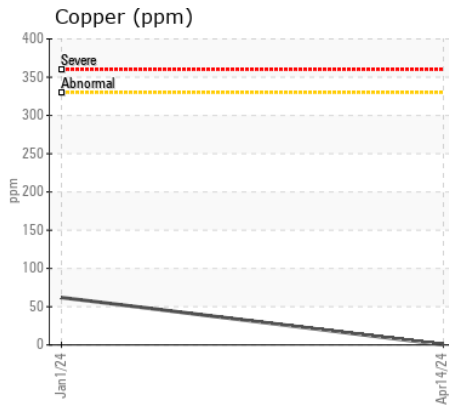
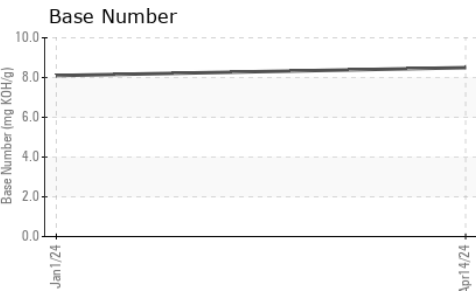
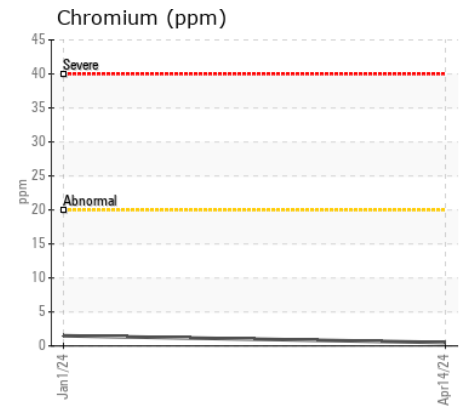
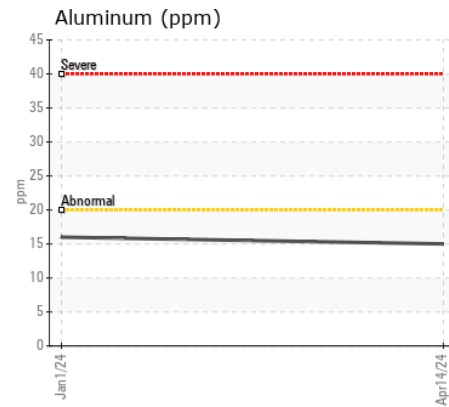
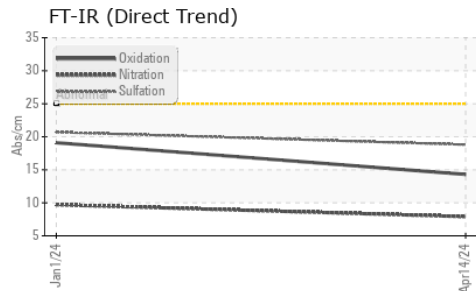
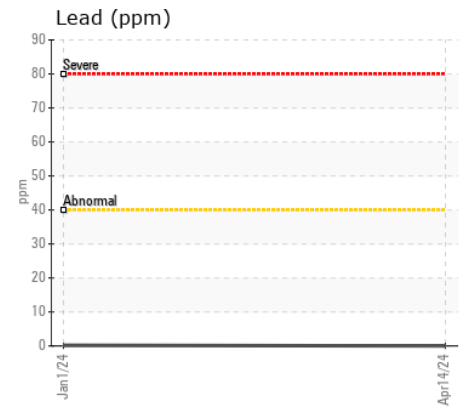
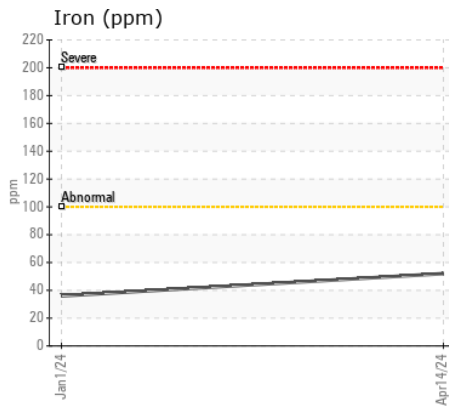
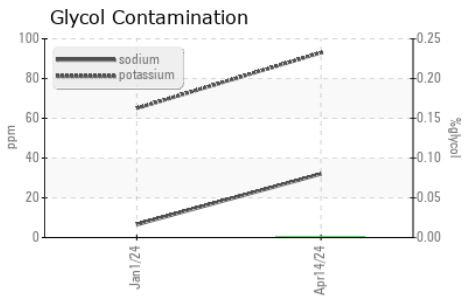
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	28	---
Potassium	ppm	ASTM D5185m	>20	<b>93</b>	65	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	1.8	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	%	*ASTM D2982		<b>0.0</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.9</b>	9.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.8</b>	20.7	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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>32</b>	6	---
Boron	ppm	ASTM D5185m		<b>28</b>	37	---
Barium	ppm	ASTM D5185m		<b>0</b>	5	---
Molybdenum	ppm	ASTM D5185m		<b>89</b>	47	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	5	---
Magnesium	ppm	ASTM D5185m		<b>598</b>	772	---
Calcium	ppm	ASTM D5185m		<b>1765</b>	1243	---
Phosphorus	ppm	ASTM D5185m		<b>1162</b>	714	---
Zinc	ppm	ASTM D5185m		<b>1392</b>	894	---
Sulfur	ppm	ASTM D5185m		<b>4190</b>	2313	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.3</b>	19.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.5</b>	8.1	---
Visc @ 100°C	cSt	ASTM D445		<b>13.6</b>	11.2	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0850965 **Received** : 15 Apr 2024  
**Lab Number** : 06149333 **Tested** : 17 Apr 2024  
**Unique Number** : 10979411 **Diagnosed** : 17 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, TBN )

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 T:  
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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)