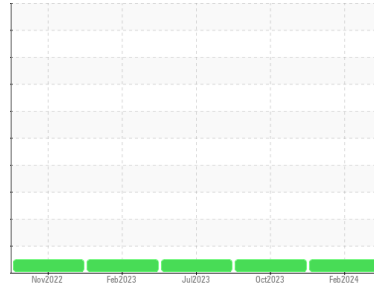


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**MIXERS**  
Machine Id  
**[MIXERS] M221**  
Component  
**Diesel Engine**  
Fluid  
**KENDALL 15W40 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### 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.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0110024</b>	LP0000664	LP0000185
Sample Date	Client Info		<b>14 Feb 2024</b>	13 Oct 2023	07 Jul 2023
Machine Age	hrs	Client Info	<b>3135</b>	2441	1942
Oil Age	hrs	Client Info	<b>600</b>	600	600
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
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

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>11</b>	12	17
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	1	1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	3	2
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m >330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 6.3	<b>35</b>	33	28
Barium	ppm	ASTM D5185m 0.6	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0.4	<b>83</b>	86	74
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 277	<b>86</b>	230	393
Calcium	ppm	ASTM D5185m 1514	<b>1968</b>	2025	1756
Phosphorus	ppm	ASTM D5185m 634	<b>988</b>	981	1032
Zinc	ppm	ASTM D5185m 743	<b>1246</b>	1249	1242
Sulfur	ppm	ASTM D5185m 2592	<b>3517</b>	3923	4210

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	3	3
Sodium	ppm	ASTM D5185m	<b>3</b>	2	3
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	2

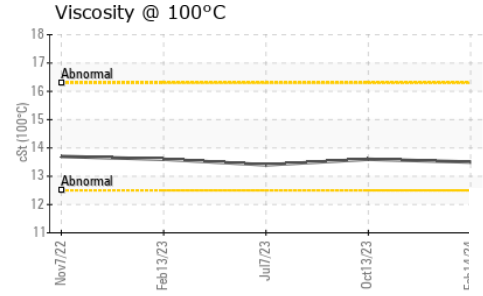
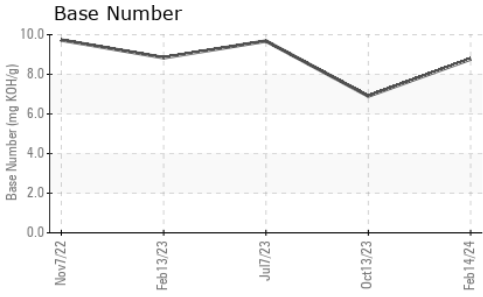
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.3	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.4</b>	8.7	9.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.5</b>	18.5	20.2

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.1</b>	14.2	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.77</b>	6.9	9.68

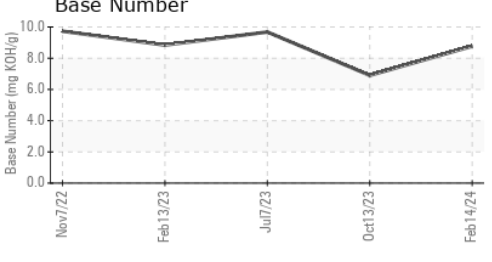
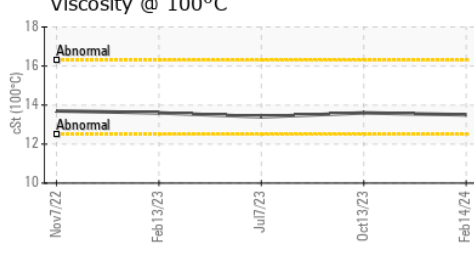
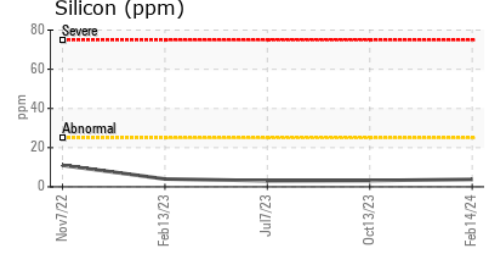
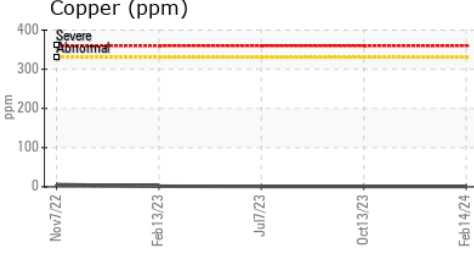
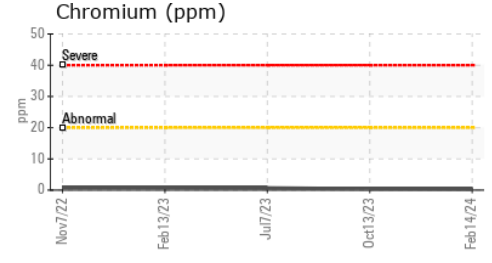
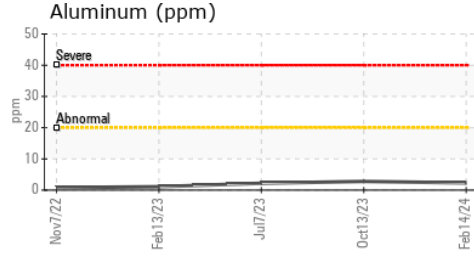
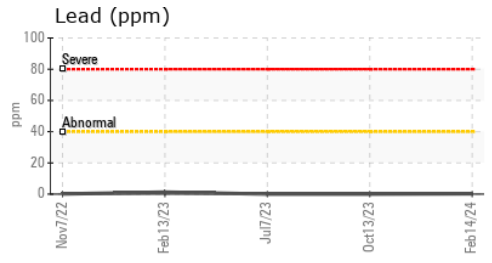
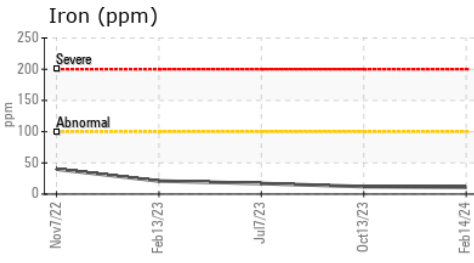
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	<b>13.5</b>	13.6	13.4

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0110024      **Received** : 21 Feb 2024  
**Lab Number** : 06096403      **Tested** : 22 Feb 2024  
**Unique Number** : 10889256      **Diagnosed** : 22 Feb 2024 - Wes Davis  
**Test Package** : MOB 2

**CONSTRUCTION SERVICES**  
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 WILBRAHAM, MA  
 US 01095  
 Contact: Michael Dupuis  
 mdupuis@cs-ma.us  
 T: (413)733-6331  
 F:

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)