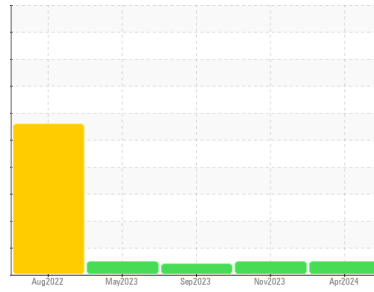


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**TRACTORS**  
 Machine Id  
**[TRACTORS] TR376**  
 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>PCA0098491</b>	LP0001121	LP0000438
Sample Date	Client Info		<b>08 Apr 2024</b>	22 Nov 2023	20 Sep 2023
Machine Age	hrs	Client Info	<b>4564</b>	3880	3342
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	ATTENTION

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	0.3
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 >110	<b>30</b>	34	10
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>2</b>	1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>20</b>	21	11
Lead	ppm	ASTM D5185m >45	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >85	<b>2</b>	5	1
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 6.3	<b>18</b>	24	33
Barium	ppm	ASTM D5185m 0.6	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m 0.4	<b>102</b>	78	85
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 277	<b>127</b>	110	61
Calcium	ppm	ASTM D5185m 1514	<b>2523</b>	2003	2054
Phosphorus	ppm	ASTM D5185m 634	<b>1203</b>	847	955
Zinc	ppm	ASTM D5185m 743	<b>1395</b>	1142	1125
Sulfur	ppm	ASTM D5185m 2592	<b>4381</b>	4114	3624

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>13</b>	13	11
Sodium	ppm	ASTM D5185m	<b>4</b>	3	4
Potassium	ppm	ASTM D5185m >20	<b>33</b>	37	20

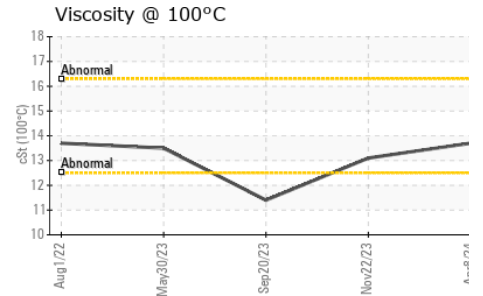
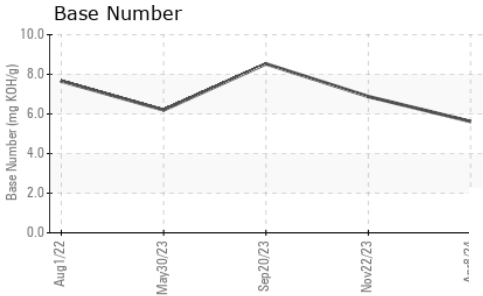
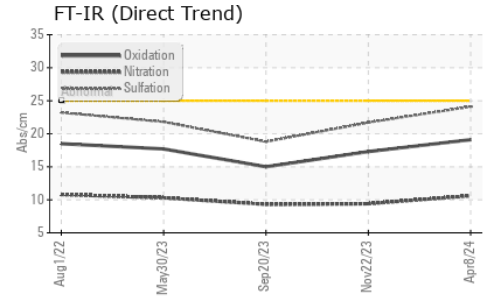
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.6</b>	9.4	9.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.1</b>	21.7	18.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>19.1</b>	17.3	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.62</b>	6.88	8.53

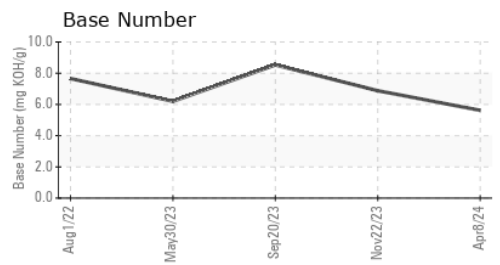
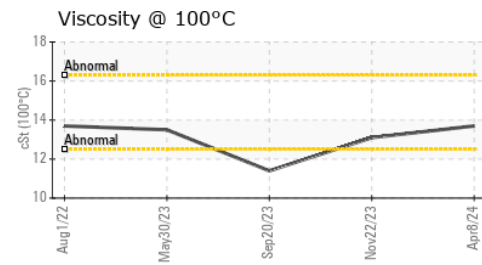
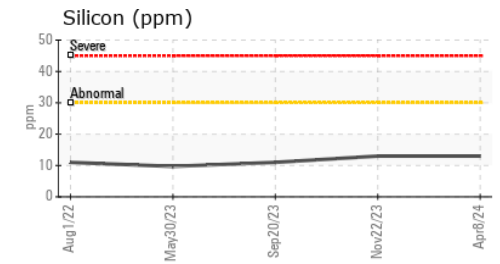
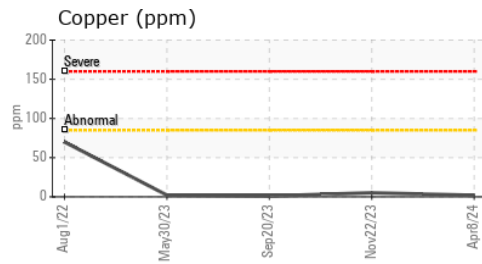
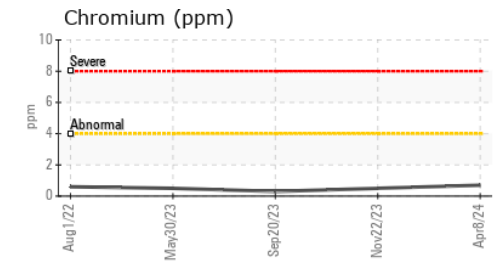
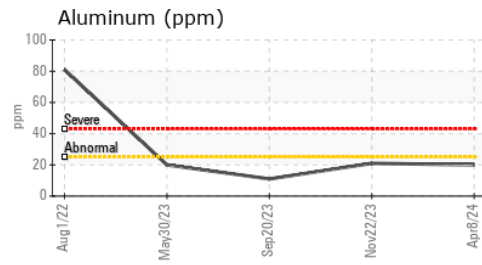
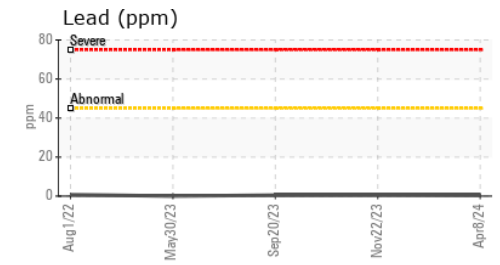
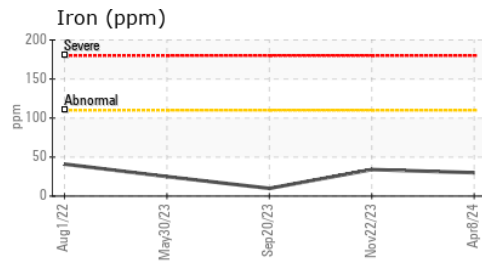
# OIL ANALYSIS REPORT



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>13.7</b>	13.1	● 11.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0098491      **Received** : 12 Apr 2024  
**Lab Number** : 06148175      **Tested** : 15 Apr 2024  
**Unique Number** : 10978253      **Diagnosed** : 16 Apr 2024 - Sean Felton  
**Test Package** : MOB 2

**CONSTRUCTION SERVICES**  
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 T: (413)733-6331  
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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)