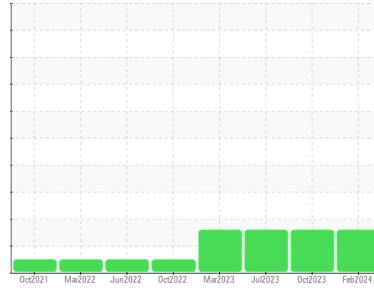


# OIL ANALYSIS REPORT

Area  
**MIXERS**  
 Machine Id  
**[MIXERS] M208**  
 Component  
**Diesel Engine**  
 Fluid  
**KENDALL 15W40 (--- GAL)**

Sample Rating Trend



## DIAGNOSIS

**Recommendation**  
 Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 Elemental level of silicon (Si) above normal indicating ingress of seal material.

**Fluid Condition**  
 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0109788</b>	LP0000662	LP0000189
Sample Date	Client Info		<b>19 Feb 2024</b>	13 Oct 2023	20 Jul 2023
Machine Age	hrs	Client Info	<b>14701</b>	14347	13747
Oil Age	hrs	Client Info	<b>600</b>	600	600
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## 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>6</b>	4	10
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	<1
Aluminum	ppm	ASTM D5185m >20	<b>3</b>	3	3
Lead	ppm	ASTM D5185m >40	<b>1</b>	<1	2
Copper	ppm	ASTM D5185m >330	<b>2</b>	<1	2
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
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>58</b>	62	42
Barium	ppm	ASTM D5185m 0.6	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0.4	<b>86</b>	87	83
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 277	<b>122</b>	141	332
Calcium	ppm	ASTM D5185m 1514	<b>2093</b>	2074	2079
Phosphorus	ppm	ASTM D5185m 634	<b>1078</b>	973	1082
Zinc	ppm	ASTM D5185m 743	<b>1300</b>	1211	1347
Sulfur	ppm	ASTM D5185m 2592	<b>3721</b>	3938	4360

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>▲ 34</b>	▲ 48	▲ 37
Sodium	ppm	ASTM D5185m	<b>5</b>	4	13
Potassium	ppm	ASTM D5185m >20	<b>1</b>	2	1

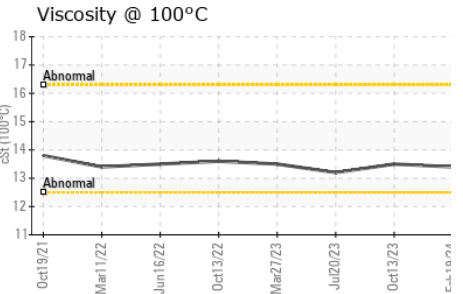
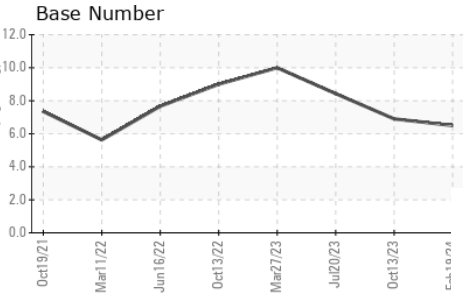
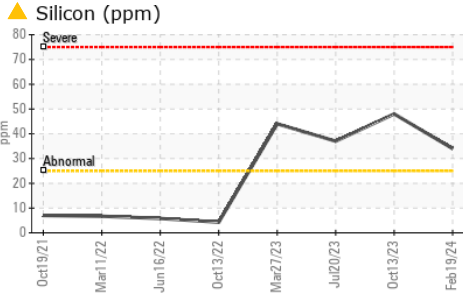
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.3</b>	0.2	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.8</b>	8.0	10.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.3</b>	17.3	20.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.1</b>	13.0	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.5</b>	6.9	8.43

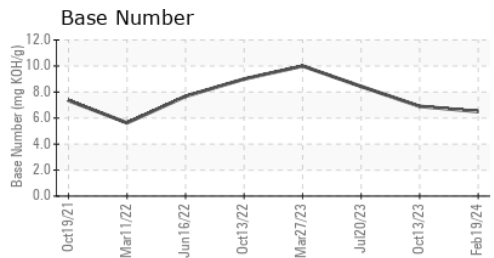
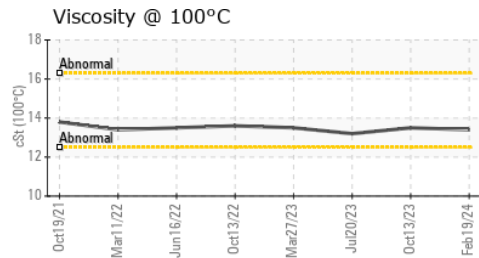
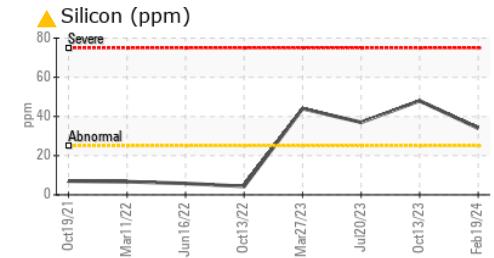
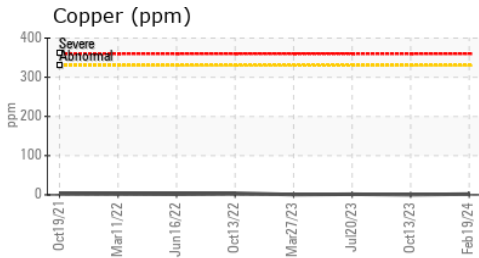
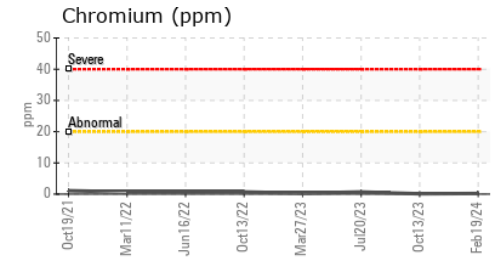
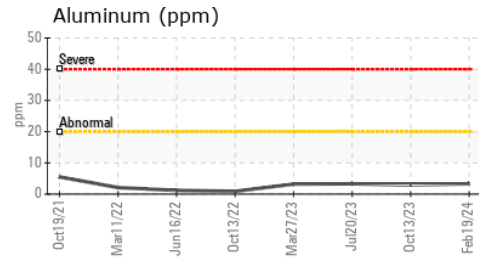
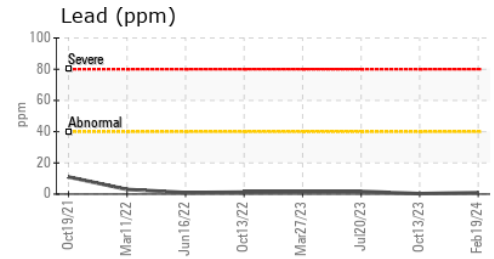
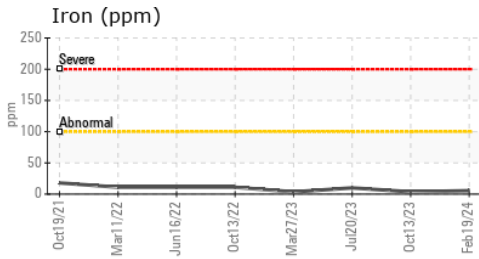
# OIL ANALYSIS REPORT



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	13.4	13.5	13.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109788 **Received** : 29 Feb 2024  
**Lab Number** : 06105101 **Tested** : 06 Mar 2024  
**Unique Number** : 10903331 **Diagnosed** : 06 Mar 2024 - Jonathan Hester  
**Test Package** : MOB 2

**CONSTRUCTION SERVICES**  
 2420 BOSTON RD  
 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)