

Area  
**MIXERS**  
Machine Id  
**[MIXERS] M201**  
Component  
**Diesel Engine**  
Fluid  
**KENDALL 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0098495</b>	PCA0110020	LP0000665
Sample Date		Client Info		<b>24 Jun 2024</b>	14 Feb 2024	30 Oct 2023
Machine Age	hrs	Client Info		<b>13211</b>	12741	12284
Oil Age	hrs	Client Info		<b>600</b>	600	600
Filter Age	hrs	Client Info		<b>600</b>	600	600
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>25</b>	15	12
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	2	1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	3	1
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>3</b>	6	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

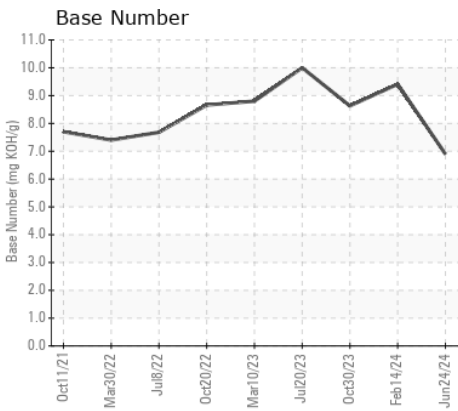
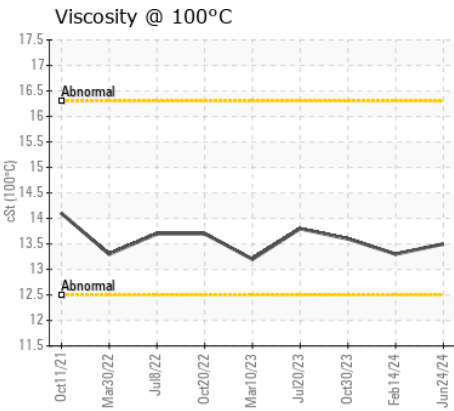
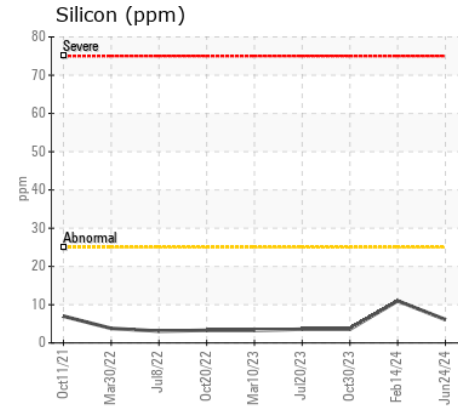
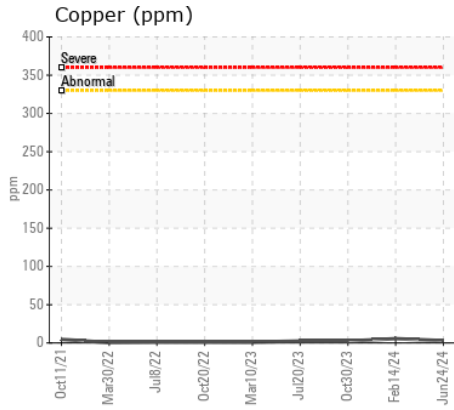
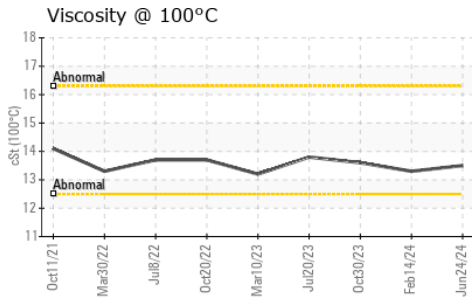
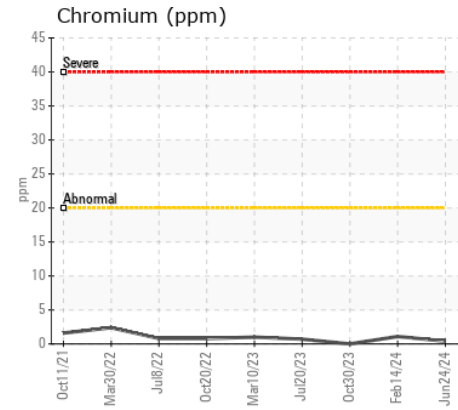
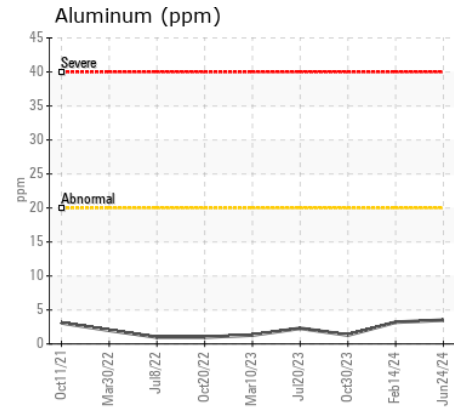
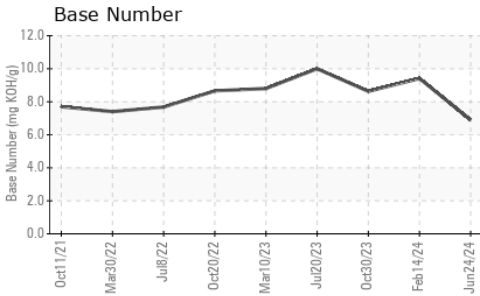
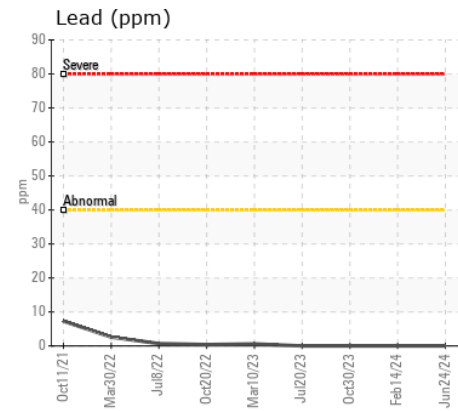
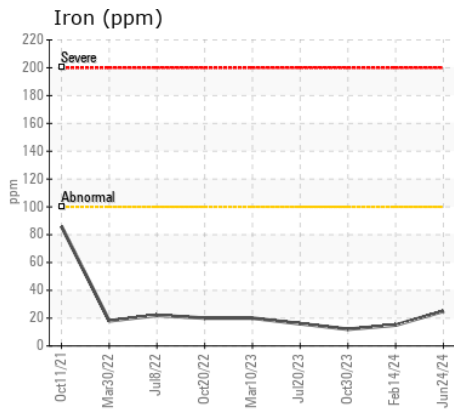
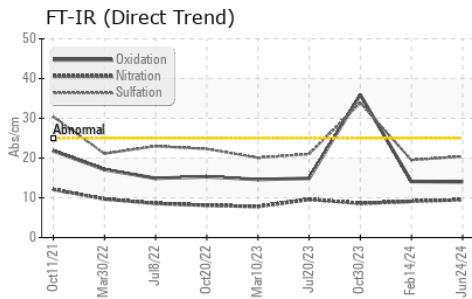
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	11	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	0
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>1.3</b>	0.9	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.5</b>	9.1	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	19.5	33.9
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>2</b>	<1	3
Boron	ppm	ASTM D5185m	6.3	<b>54</b>	84	41
Barium	ppm	ASTM D5185m	0.6	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0.4	<b>84</b>	135	80
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	277	<b>55</b>	155	188
Calcium	ppm	ASTM D5185m	1514	<b>2183</b>	2967	1880
Phosphorus	ppm	ASTM D5185m	634	<b>1014</b>	1466	976
Zinc	ppm	ASTM D5185m	743	<b>1209</b>	1760	1181
Sulfur	ppm	ASTM D5185m	2592	<b>4014</b>	5419	3302
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.0</b>	14.1	35.9
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.9</b>	9.41	8.63
Visc @ 100°C	cSt	ASTM D445		<b>13.5</b>	13.3	13.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0098495 **Received** : 01 Jul 2024  
**Lab Number** : 06225583 **Tested** : 03 Jul 2024  
**Unique Number** : 11103780 **Diagnosed** : 03 Jul 2024 - Wes Davis  
**Test Package** : MOB 2

**CONSTRUCTION SERVICES**  
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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)