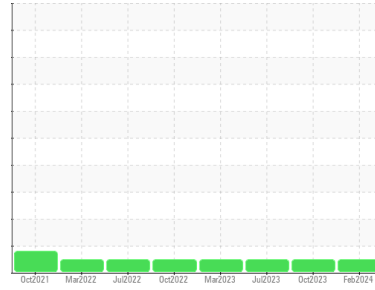


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
MIXERS
Machine Id
[MIXERS] M201
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	PCA0110020	LP0000665	LP0000187
Sample Date	Client Info	14 Feb 2024	30 Oct 2023	20 Jul 2023
Machine Age	hrs	12741	12284	11666
Oil Age	hrs	600	600	600
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	15	12	16
Chromium	ppm ASTM D5185m >20	1	0	<1
Nickel	ppm ASTM D5185m >4	<1	0	<1
Titanium	ppm ASTM D5185m	2	1	1
Silver	ppm ASTM D5185m >3	<1	0	<1
Aluminum	ppm ASTM D5185m >20	3	1	2
Lead	ppm ASTM D5185m >40	0	0	0
Copper	ppm ASTM D5185m >330	6	2	2
Tin	ppm ASTM D5185m >15	<1	0	<1
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 6.3	84	41	48
Barium	ppm ASTM D5185m 0.6	<1	0	0
Molybdenum	ppm ASTM D5185m 0.4	135	80	85
Manganese	ppm ASTM D5185m	<1	0	<1
Magnesium	ppm ASTM D5185m 277	155	188	140
Calcium	ppm ASTM D5185m 1514	2967	1880	2185
Phosphorus	ppm ASTM D5185m 634	1466	976	1053
Zinc	ppm ASTM D5185m 743	1760	1181	1300
Sulfur	ppm ASTM D5185m 2592	5419	3302	4407

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	11	4	4
Sodium	ppm ASTM D5185m	<1	3	3
Potassium	ppm ASTM D5185m >20	3	0	<1

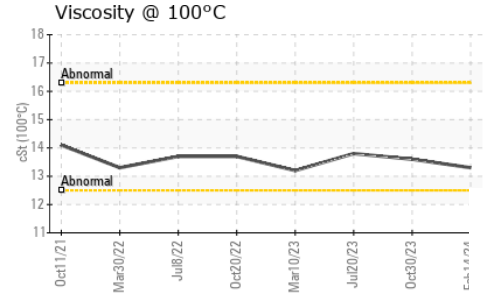
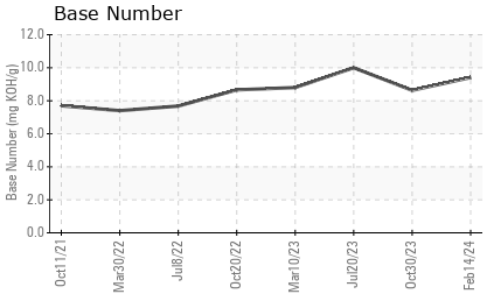
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.9	0.3	1.4
Nitration	Abs/cm *ASTM D7624 >20	9.1	8.6	9.6
Sulfation	Abs/.1mm *ASTM D7415 >30	19.5	33.9	21.0

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	14.1	35.9	14.9
Base Number (BN)	mg KOH/g ASTM D2896	9.41	8.63	10.00

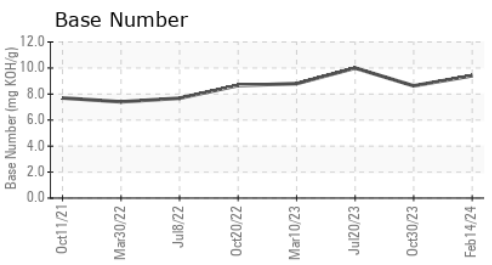
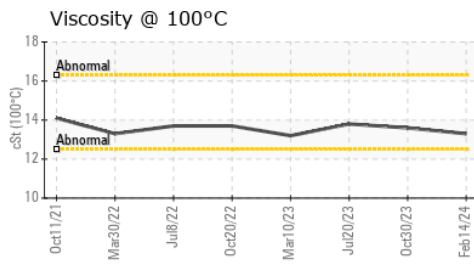
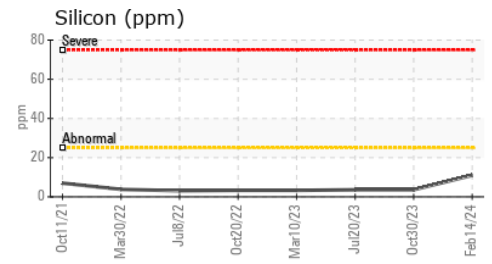
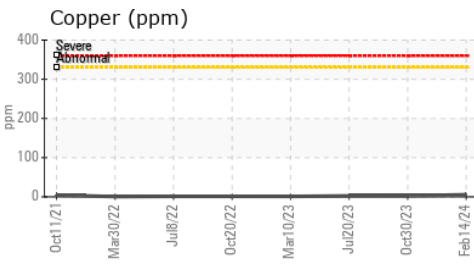
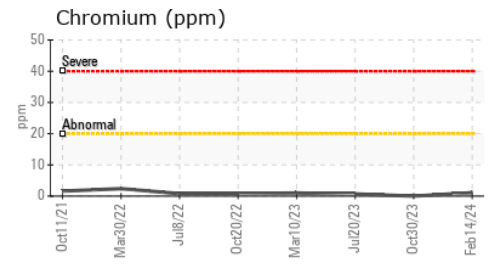
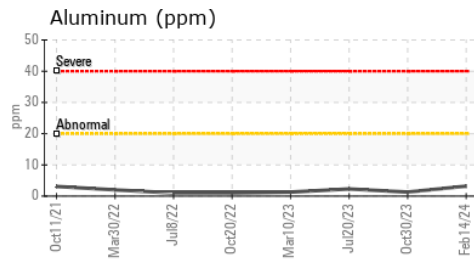
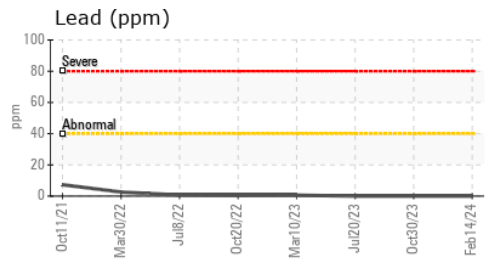
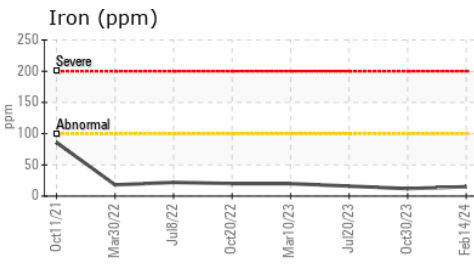
OIL ANALYSIS REPORT



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	13.3	13.6	13.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110020 **Received** : 21 Feb 2024
Lab Number : **06096397** **Tested** : 22 Feb 2024
Unique Number : 10889250 **Diagnosed** : 23 Feb 2024 - Sean Felton
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)