

Area
MIXERS
Machine Id
[MIXERS] M299
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		PCA0110018	LP0001227	LP0000436
Sample Date		Client Info		12 Jan 2024	15 Dec 2023	20 Sep 2023
Machine Age	hrs	Client Info		25957	25932	25433
Oil Age	hrs	Client Info		25	600	600
Filter Age	hrs	Client Info		25	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<1	31	47
Chromium	ppm	ASTM D5185m	>20	0	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		1	<1	1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	3	3
Lead	ppm	ASTM D5185m	>40	<1	▲ 58	36
Copper	ppm	ASTM D5185m	>330	10	74	24
Tin	ppm	ASTM D5185m	>15	0	2	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

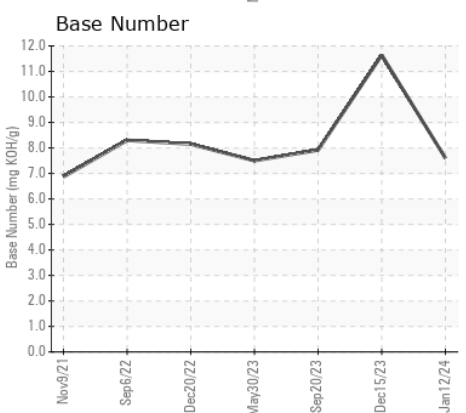
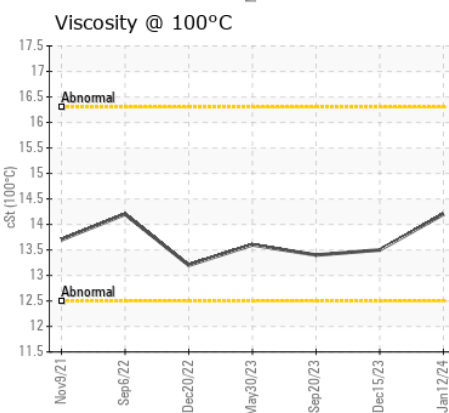
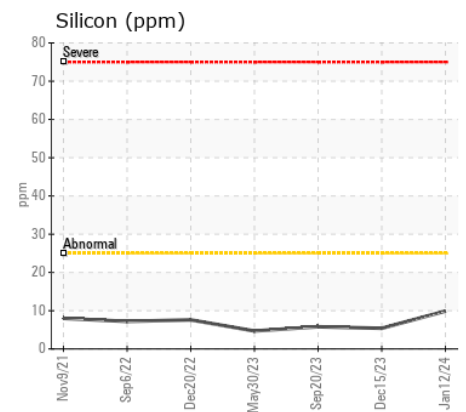
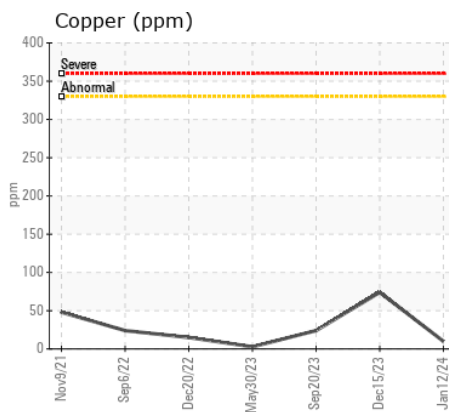
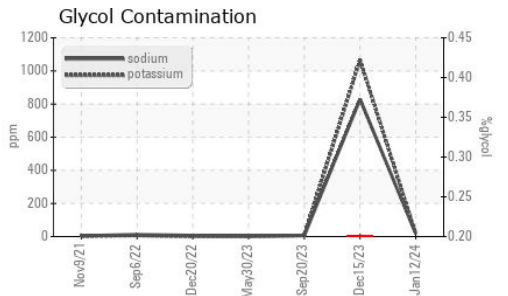
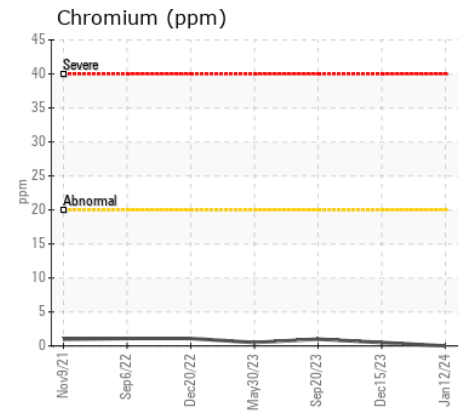
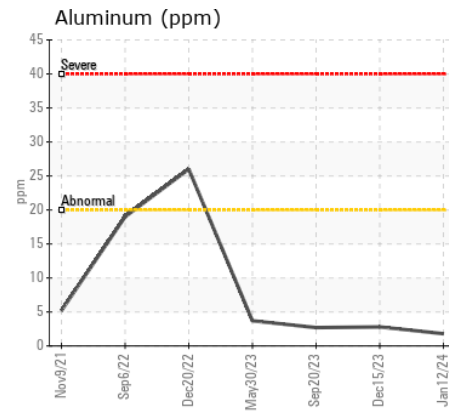
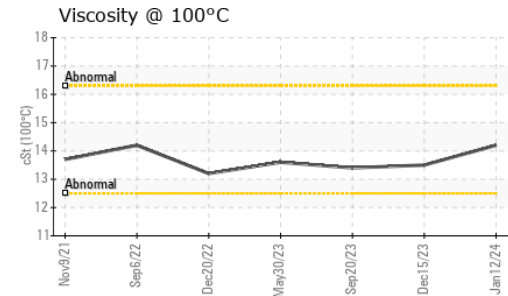
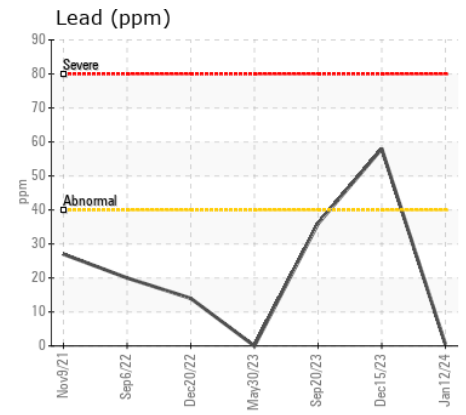
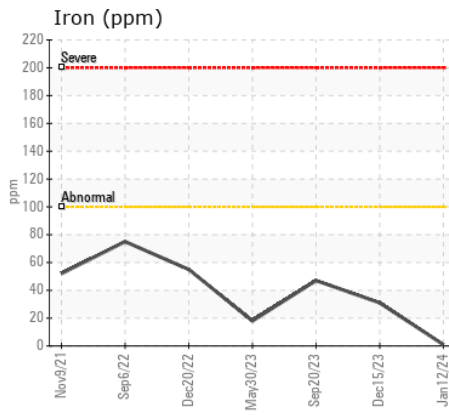
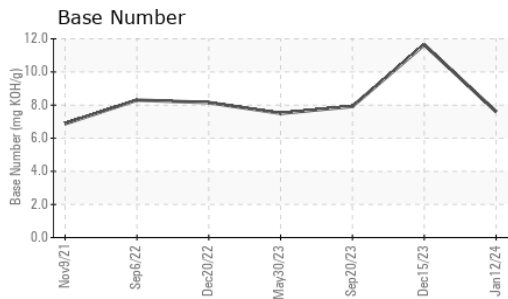
No evidence of coolant present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	5	6
Potassium	ppm	ASTM D5185m	>20	19	▲ 1067	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	◆ 0.20	NEG
Soot %	%	*ASTM D7844	>3	0	0.6	1.1
Nitration	Abs/cm	*ASTM D7624	>20	6.5	15.9	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.9	21.6	23.5
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	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		17	▲ 829	7
Boron	ppm	ASTM D5185m	6.3	68	17	20
Barium	ppm	ASTM D5185m	0.6	0	0	<1
Molybdenum	ppm	ASTM D5185m	0.4	83	116	83
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	277	128	95	174
Calcium	ppm	ASTM D5185m	1514	1977	1360	1997
Phosphorus	ppm	ASTM D5185m	634	1018	753	945
Zinc	ppm	ASTM D5185m	743	1193	872	1171
Sulfur	ppm	ASTM D5185m	2592	3718	2921	3468
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.0	16.4	20.9
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	11.64	7.92
Visc @ 100°C	cSt	ASTM D445		14.2	13.5	13.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110018 **Received** : 16 Jan 2024
Lab Number : 06061798 **Diagnosed** : 18 Jan 2024
Unique Number : 10833180 **Diagnostician** : Jonathan Hester
Test Package : MOB 2

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 WILBRAHAM, MA
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 Contact: Michael Dupuis
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Certificate L2367
 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)