



Area
MIXERS
Machine Id
[MIXERS] M299
Component
Diesel Engine
Fluid
KENDALL 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0001227	LP0000436	WC0721112
Sample Date		Client Info		15 Dec 2023	20 Sep 2023	30 May 2023
Machine Age	hrs	Client Info		25932	25433	24924
Oil Age	hrs	Client Info		600	600	600
Filter Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

The lead level is abnormal.

Iron	ppm	ASTM D5185m	>100	31	47	18
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	1	1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	4
Lead	ppm	ASTM D5185m	>40	▲ 58	36	0
Copper	ppm	ASTM D5185m	>330	74	24	3
Tin	ppm	ASTM D5185m	>15	2	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

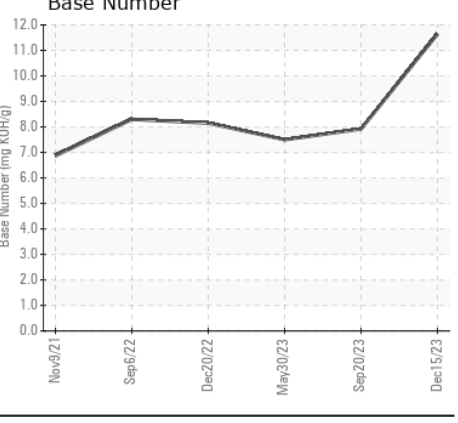
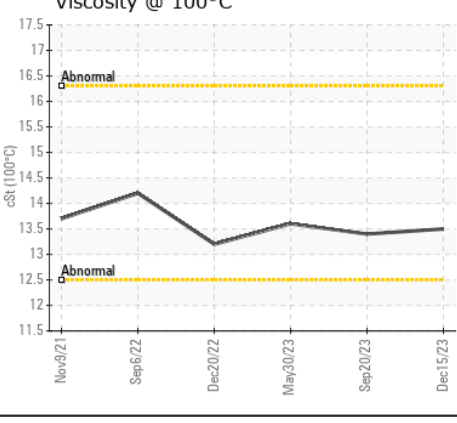
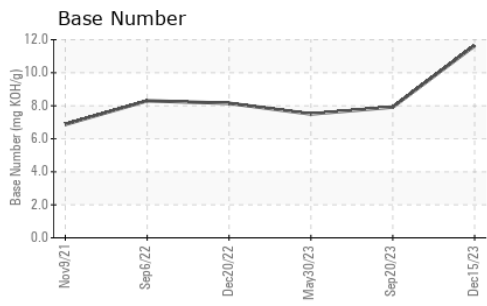
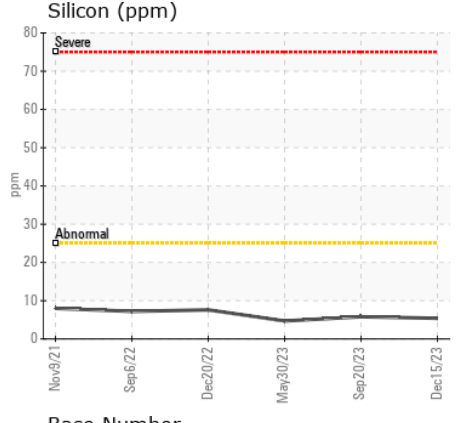
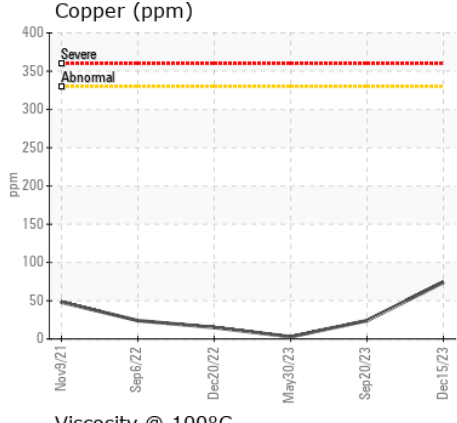
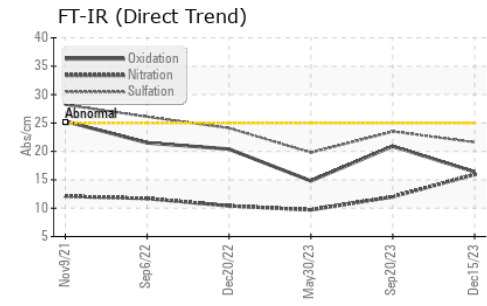
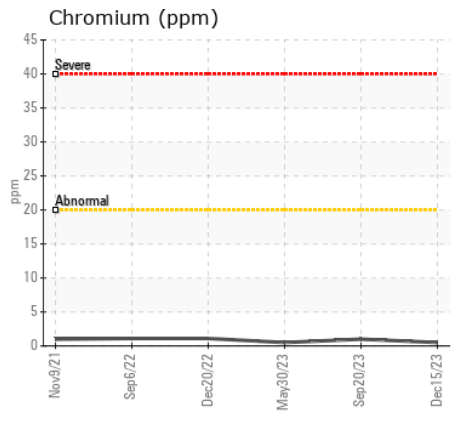
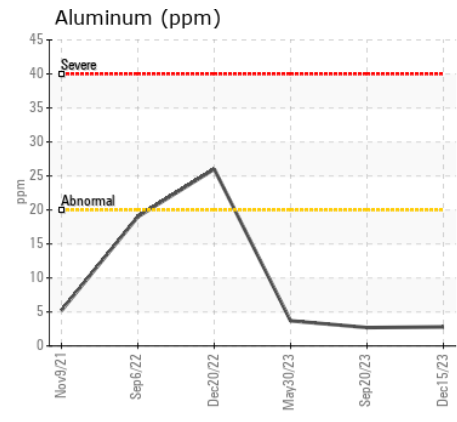
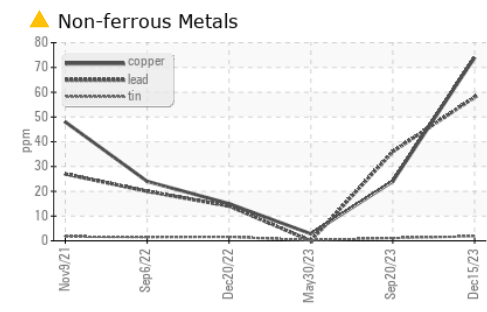
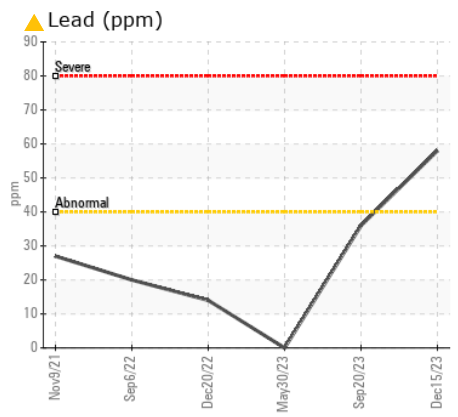
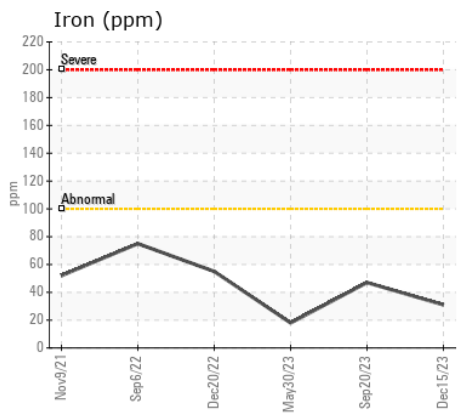
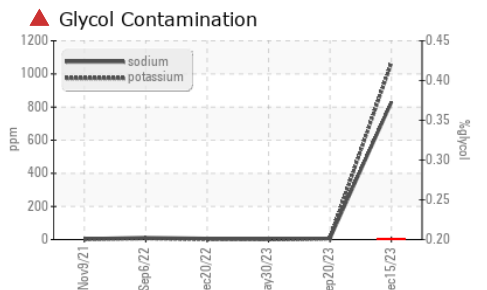
Sodium and/or potassium levels are high. Test for glycol is positive. There is a high concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185m	>25	5	6	5
Potassium	ppm	ASTM D5185m	>20	▲ 1067	6	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		▲ 0.20	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	1.1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	15.9	12.0	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	23.5	19.8
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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		▲ 829	7	2
Boron	ppm	ASTM D5185m	6.3	17	20	52
Barium	ppm	ASTM D5185m	0.6	0	<1	0
Molybdenum	ppm	ASTM D5185m	0.4	116	83	80
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	277	95	174	101
Calcium	ppm	ASTM D5185m	1514	1360	1997	2164
Phosphorus	ppm	ASTM D5185m	634	753	945	1017
Zinc	ppm	ASTM D5185m	743	872	1171	1254
Sulfur	ppm	ASTM D5185m	2592	2921	3468	4333
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	20.9	14.8
Base Number (BN)	mg KOH/g	ASTM D2896		11.64	7.92	7.5
Visc @ 100°C	cSt	ASTM D445		13.5	13.4	13.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001227 **Received** : 19 Dec 2023
Lab Number : 06040117 **Tested** : 21 Dec 2023
Unique Number : 10795346 **Diagnosed** : 21 Dec 2023 - Don Baldrige
Test Package : MOB 2 (Additional Tests: Glycol)

CONSTRUCTION SERVICES
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 WILBRAHAM, MA
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 mdupuis@cs-ma.us
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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)