



OIL ANALYSIS REPORT

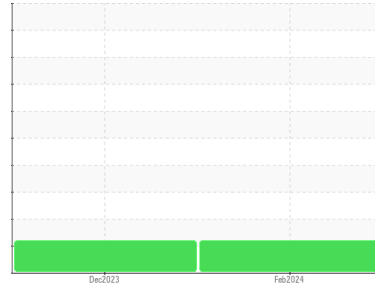
Sample Rating Trend

GLYCOL



Machine Id
MCI MOTOR COACH 2003

Component
Diesel Engine
Fluid
{not provided} (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0859161	WC0859133	---
Sample Date	Client Info		20 Feb 2024	13 Dec 2023	---
Machine Age	mls	Client Info	0	0	---
Oil Age	mls	Client Info	0	0	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	81	63	---
Chromium	ppm	ASTM D5185m	>4	3	2	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>15	5	4	---
Lead	ppm	ASTM D5185m	>50	8	<1	---
Copper	ppm	ASTM D5185m	>55	4	2	---
Tin	ppm	ASTM D5185m	>4	2	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		9	28	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m		74	52	---
Manganese	ppm	ASTM D5185m		1	1	---
Magnesium	ppm	ASTM D5185m		911	599	---
Calcium	ppm	ASTM D5185m		1186	1665	---
Phosphorus	ppm	ASTM D5185m		1045	873	---
Zinc	ppm	ASTM D5185m		1227	1007	---
Sulfur	ppm	ASTM D5185m		2925	2586	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	17	16	---
Sodium	ppm	ASTM D5185m		20	12	---
Potassium	ppm	ASTM D5185m	>20	▲ 185	▲ 84	---
Glycol	%	*ASTM D2982		NEG	NEG	---

INFRA-RED

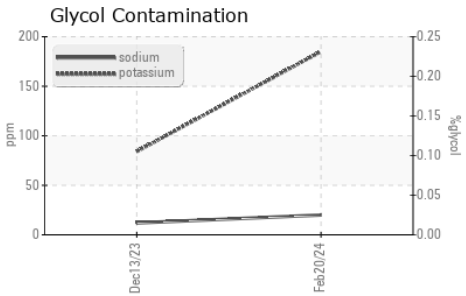
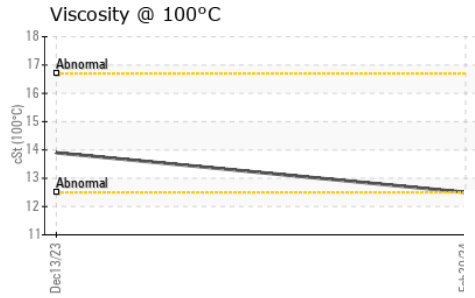
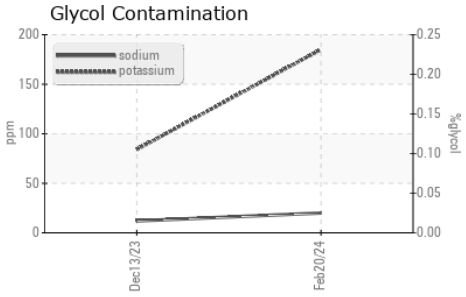
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	2.9	2.2	---
Nitration	Abs/cm	*ASTM D7624	>20	13.0	10.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	26.1	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	22.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.2	9.6	---



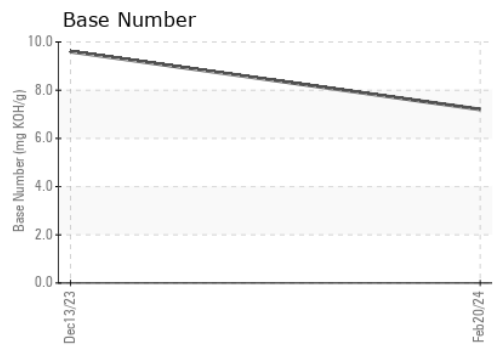
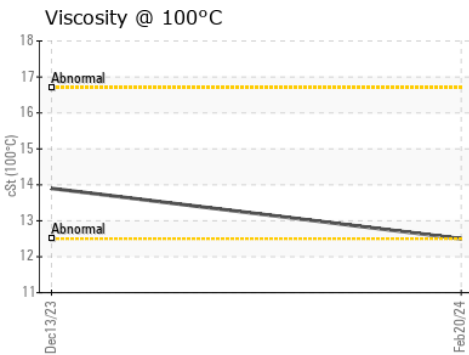
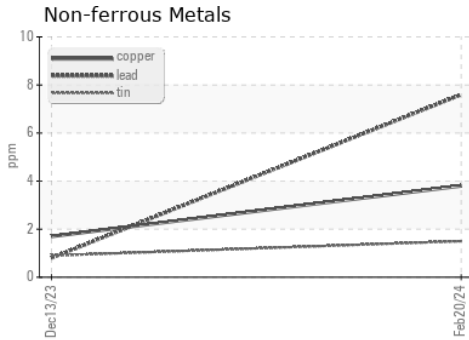
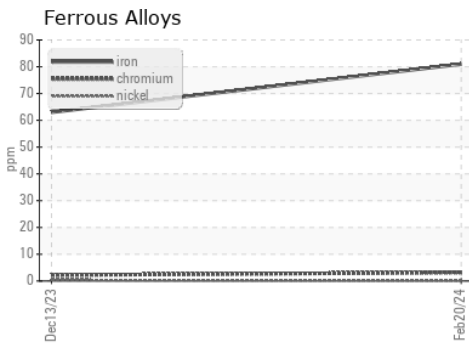
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VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.5	13.9	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0859161 **Received** : 23 Feb 2024
Lab Number : 06098102 **Tested** : 27 Feb 2024
Unique Number : 10896332 **Diagnosed** : 27 Feb 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

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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)