COOLANT REPORT

Machine Id
JOHN DEERE 644K LDR009
Component
Coolant
Fluid
EXTENDED LIFE COOLANT (--- GAL)

Sample Rating Trend

PH

DIAGNOSIS

Recommendation
We recommend that you drain the system and refill with a 50/50 long-life coolant/water mixture. We recommend an early resample to monitor this condition.

Corrosion
Copper ppm levels are abnormal. The high metal levels indicate corrosion in the system.

Contaminants
There is no indication of any contamination in the coolant.

Coolant Condition
The pH is low which causes rust formation. The reserve alkalinity of this fluid is acceptable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0920175**	WC0892477	---
Sample Date		Client Info		**11 Apr 2024**	08 Jan 2024	---
Machine Age	hrs	Client Info		**12657**	111363	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Not Changd**	Not Changd	---
Sample Status				**ABNORMAL**	ABNORMAL	---

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Glycol Type		FT-IR		**UNK**	---	---
Specific Gravity		ASTM D1298*		**1.079**	1.075	---
pH	Scale 0-14	ASTM D1287*	9.0	▲ **6.90**	▲ 6.85	---
Nitrites	ppm	Alcan Test Kit*		**440**	840	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*		**4.5**	4.8	---
Percentage Glycol	%	ASTM D3321*	50	**59.2**	56.0	---
Freezing Point	°C	ASTM D3321*	-40	**-49**	-50	---
Carboxylate				**---**	---	---

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**158**	121	---
Phosphorus	ppm	ASTM D5185(m)		**80**	53	---
Boron	ppm	ASTM D5185(m)		**968**	855	---
Molybdenum	ppm	ASTM D5185(m)		**135**	136	---

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	**12**	7	---
Aluminum	ppm	ASTM D5185(m)	>10	**4**	2	---
Copper	ppm	ASTM D5185(m)	>10	▲ **58**	▲ 39	---
Lead	ppm	ASTM D5185(m)	>10	**0**	0	---
Tin	ppm	ASTM D5185(m)	>10	**0**	0	---
Silver	ppm	ASTM D5185(m)	>10	**<1**	<1	---
Zinc	ppm	ASTM D5185(m)		**21**	12	---

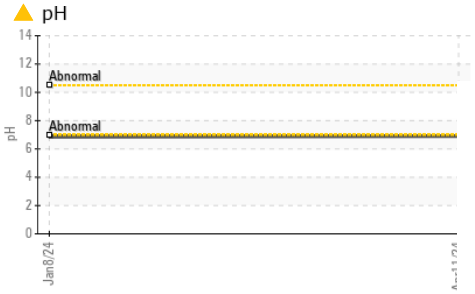
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		**7954**	10088	---
Potassium	ppm	ASTM D5185(m)		**360**	289	---

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	**5**	8	---
Magnesium	ppm	ASTM D5185(m)	>40	**2**	2	---
Hardness	mg/L CaCO3	In-house*	<75	**21**	27	---

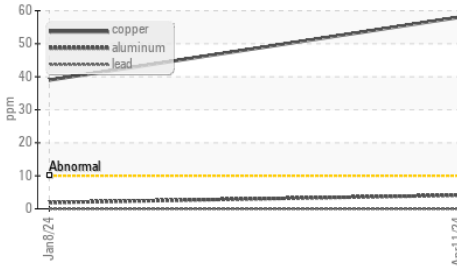
COOLANT REPORT

Nitrites

pH



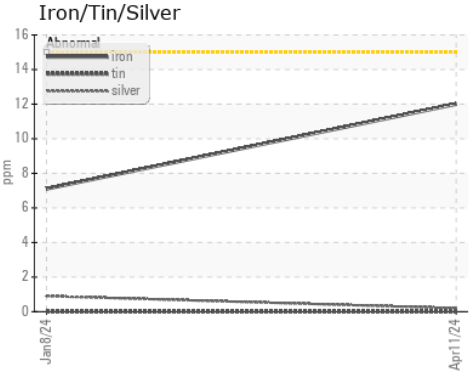
Copper/Aluminum/Lead



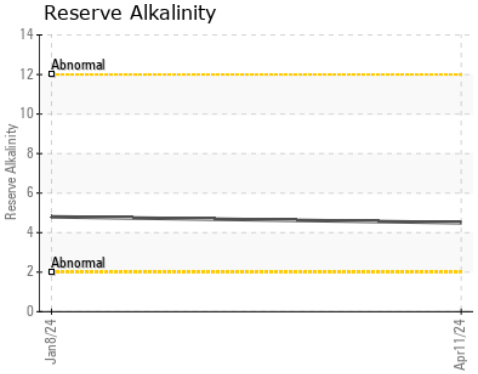
VISUAL		method	limit/base	current	history1	history2
Coolant Color		Visual*	Orange/R	**Orange**	Red	---
Coolant Appearance		Visual*	Clear	**Clear**	Clear	---
Color						*no image*
Bottom						*no image*

GRAPHS

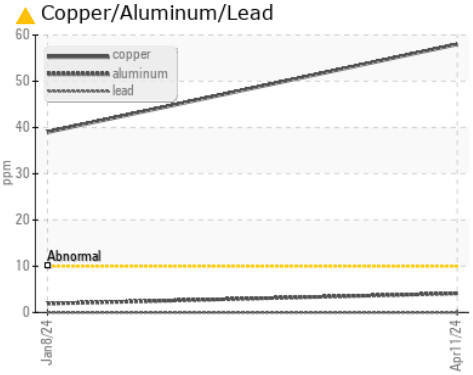
Iron/Tin/Silver



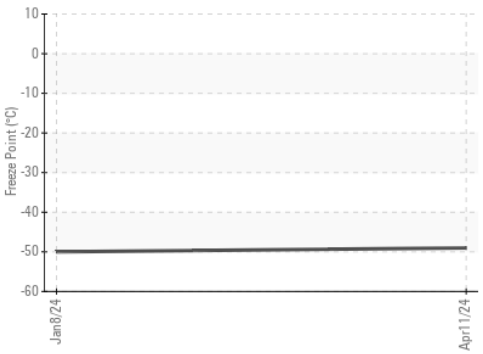
Reserve Alkalinity



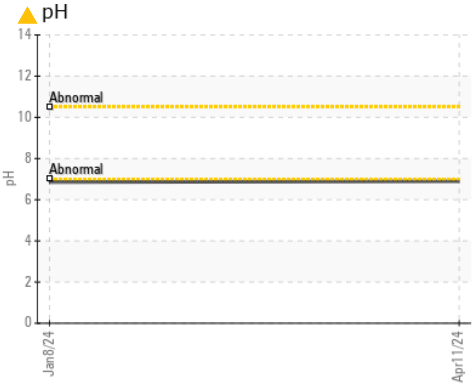
Copper/Aluminum/Lead



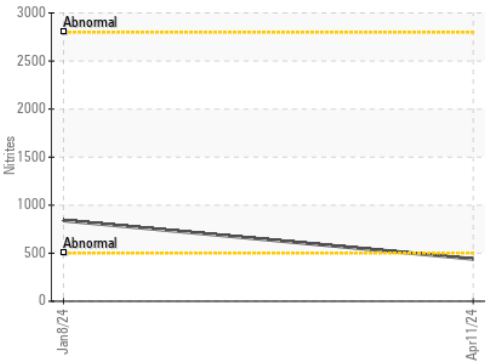
Freeze Point



pH



Nitrites



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0920175 **Received** : 17 Apr 2024
Lab Number : 02629803 **Tested** : 22 Apr 2024
Unique Number : 5762935 **Diagnosed** : 22 Apr 2024 - Kevin Marson
Test Package : COOL (Additional Tests: GlycolType)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.

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