



# COOLANT REPORT

CORROSION	<b>NORMAL</b>
CONTAMINANTS	<b>NORMAL</b>
COOLANT CONDITION	<b>NORMAL</b>



Machine Id  
**CATERPILLAR 299D SKIDSTEER 040-0019 (S/N CAT0299DAFD204356)**  
 Component  
**Coolant**  
 Fluid  
**DefendAL HD Antifreeze (--- QTS)**

## RECOMMENDATION

The fluid is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0868419</b>	WC0868391	WC0815229
Sample Date		Client Info		<b>24 Jan 2024</b>	21 Dec 2023	09 Oct 2023
Machine Age	hrs	Client Info		<b>11409</b>	11252	10384
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

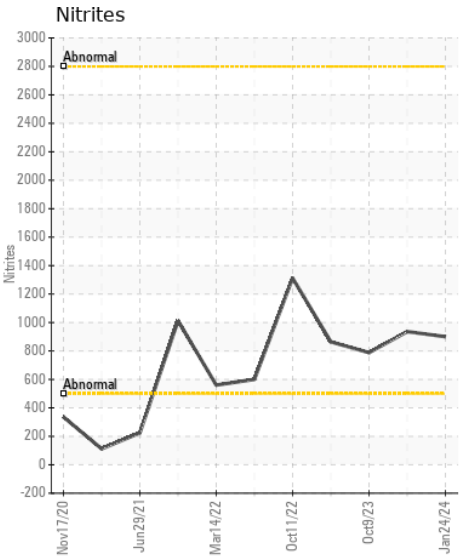
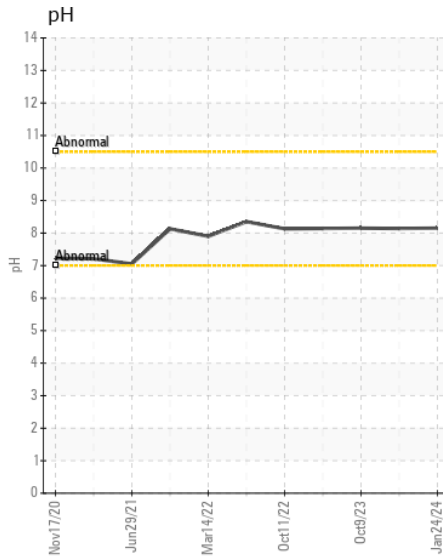
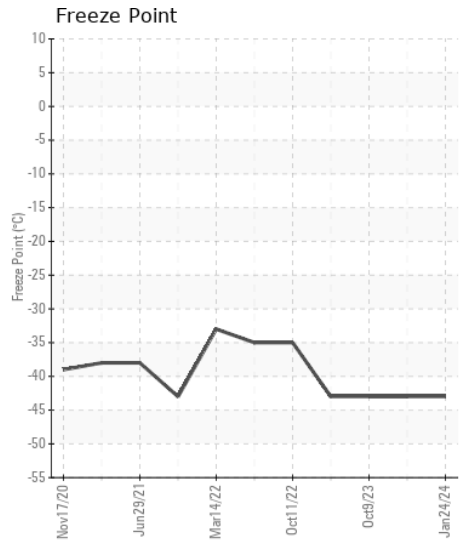
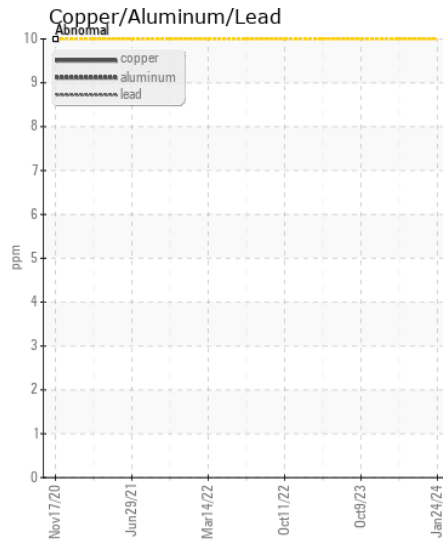
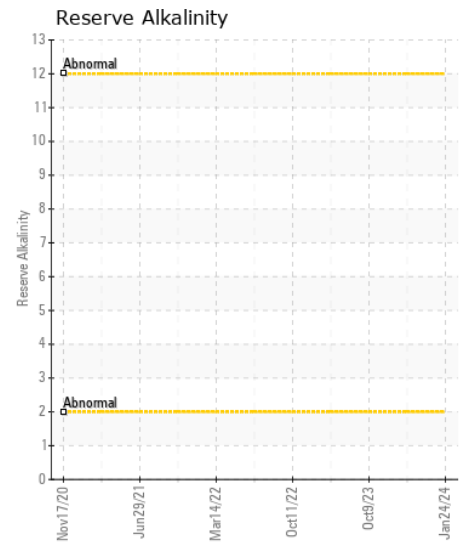
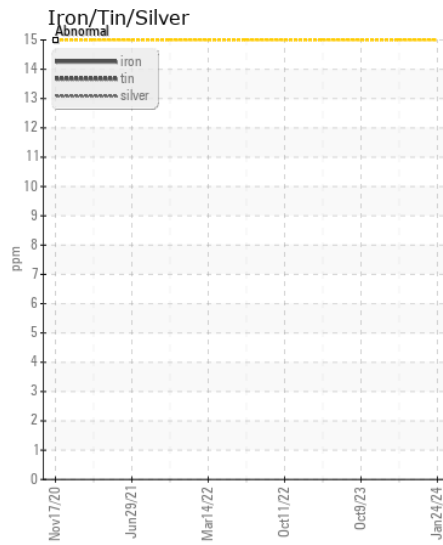
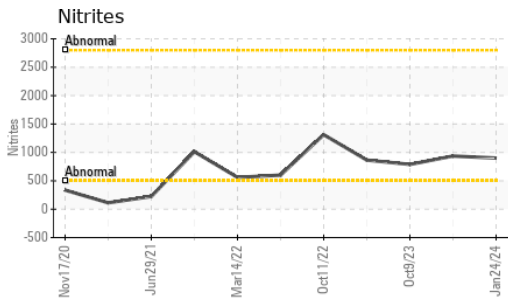
## CORROSION

Total Dissolved Solids				<b>521.0</b>	496.5	522.0
Coolant Appearance		*Visual	Clear	<b>normal</b>	normal	normal

## CONTAMINANTS

There is no indication of any contamination in the coolant.

Specific Gravity		*ASTM D1298	1.075	<b>1.072</b>	1.072	1.071
pH	Scale 0-14	ASTM D1287		<b>8.15</b>	8.14	8.15
Nitrites	ppm	AP-053:2009	600	<b>900</b>	936	788
Reserve Alkalinity	Scale 0-20	*ASTM D1121	2.8	<b>---</b>	---	---
Percentage Glycol	%	ASTM D3321	50	<b>53.5</b>	53.5	53.3
Freezing Point	°F	ASTM D3321	-36	<b>-43</b>	-43	-43
Carboxylate				<b>n/a</b>	n/a	n/a
Coolant Color		*Visual	Red	<b>Red</b>	Red	Red



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0868419 **Received** : 30 Jan 2024  
**Lab Number** : 06074274 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10856365 **Diagnostician** : Jonathan Hester  
**Test Package** : COOL- ( Additional Tests: COOL )

**SHIMMICK CONSTRUCTION**  
 5535 TRAILHEAD DRIVE  
 CHATTANOOGA, TN  
 US 37415  
 Contact: DANIEL LISELLA  
 daniel.lisella@shimmick.com

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)

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F: