

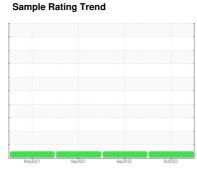
# **COOLANT REPORT**



KANSAS/88/HY - MOBILE EQUIPMENT 20.103C [KANSAS^88^HY - MOBILE EQUIPMENT] Component

Coolant

**CATERPILLAR ELC (--- GAL)** 





# Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service.

### Corrosion

All metal levels are normal indicating no corrosion in the cooling system.

# **Contaminants**

There is no indication of any contamination in the coolant.

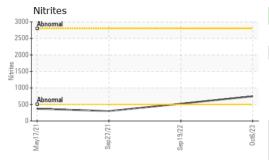
# **Coolant Condition**

Carboxylate test failed. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

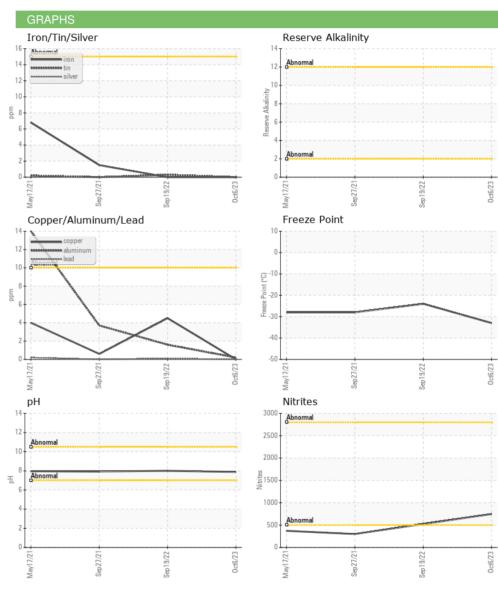
	- ,		May202	21 Sep2021	Sep2022	Oct2023	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         4102         3570         1410           Oil Age         hrs         Client Info         4102         3570         3448           Oil Changed         Client Info         Not Changd         Not Changd         Not Changd         Not Changd         Not Changd         Not Changd         NORMAL         NORMAL <td>Sample Number</td> <td></td> <td>Client Info</td> <td></td> <th>WC0833794</th> <td>WC0712321</td> <td>WC0621057</td>	Sample Number		Client Info		WC0833794	WC0712321	WC0621057
Oil Age         hrs         Client Info         4102         3570         3448           Oil Changed         Client Info         Not Changd         Not Changd <td>Sample Date</td> <td></td> <td>Client Info</td> <td></td> <th>06 Oct 2023</th> <td>19 Sep 2022</td> <td>27 Sep 2021</td>	Sample Date		Client Info		06 Oct 2023	19 Sep 2022	27 Sep 2021
Oil Age         hrs         Client Info         4102         3570         3448           Oil Changed         Client Info         Not Changd         Not Changd <td>Machine Age</td> <td>hrs</td> <td>Client Info</td> <td></td> <th>4102</th> <td>3570</td> <td>1410</td>	Machine Age	hrs	Client Info		4102	3570	1410
Not Changed Sample Status	Oil Age	hrs	Client Info		4102	3570	3448
NORMAL   NORMAL   NORMAL   NORMAL					Not Changd	Not Changd	Not Changd
Specific Gravity	-					Ü	0
pH         Scale 0-14         ASTM D1287         7.88         8.00         7.92           Nitrites         ppm         AP-053:2009         748         524         300           Reserve Alkalinity         Scale 0-20         "ASTM D1121              Percentage Glycol         %         ASTM D3321         49.3         45.7         46           Freezing Point         °F         ASTM D3321         -33         -24         -28           Total Dissolved Solids         393.0         323.5         362.5           Carboxylate         fail         pass         pass           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         <1         18         22           CORROSION         ppm         ASTM D6130         0         45         0         0           Boron         ppm         ASTM D6130         950         624         986         995           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >10	PHYSICAL TEST R	ESULTS	method	limit/base	current	history1	history2
Nitrites	Specific Gravity		*ASTM D1298		1.067	1.062	
Reserve Alkalinity	рН	Scale 0-14	ASTM D1287		7.88	8.00	7.92
Percentage Glycol   %	Nitrites	ppm	AP-053:2009		748	524	300
Freezing Point	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids	Percentage Glycol	%	ASTM D3321		49.3	45.7	46
Carboxylate         fail         pass         pass           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         <1	Freezing Point	°F	ASTM D3321		-33	-24	-28
CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         <1	Total Dissolved Solids				393.0	323.5	362.5
Silicon	Carboxylate				fail	pass	pass
Phosphorus         ppm         ASTM D6130         0         45         0         0           Boron         ppm         ASTM D6130         0         0         3         3           Molybdenum         ppm         ASTM D6130         950         624         986         995           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         0         0         2           Aluminum         ppm         ASTM D6130         >10         <1	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron	Silicon	ppm	ASTM D6130	0	<1	18	22
Molybdenum         ppm         ASTM D6130         950         624         986         995           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         0         0         2           Aluminum         ppm         ASTM D6130         >10         <1	Phosphorus	ppm	ASTM D6130	0	45	0	0
CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         0         0         2           Aluminum         ppm         ASTM D6130         >10         <1	Boron	ppm	ASTM D6130	0	0	3	3
Iron         ppm         ASTM D6130         >15         0         0         2           Aluminum         ppm         ASTM D6130         >10         <1         2         4           Copper         ppm         ASTM D6130         >10         0         4         <1           Lead         ppm         ASTM D6130         >10         0         <1         0           Tin         ppm         ASTM D6130         >10         0         <1         0           Zinc         ppm         ASTM D6130         0         7         2           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         3797         3034         3630           Potassium         ppm         ASTM D6130         3797         3034         3630           Potassium         ppm         ASTM D6130         779         72         874           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         <1         9         6	Molybdenum	ppm	ASTM D6130	950	624	986	995
Aluminum         ppm         ASTM D6130         >10         <1         2         4           Copper         ppm         ASTM D6130         >10         0         4         <1	CORROSION		method	limit/base	current	history1	history2
Copper         ppm         ASTM D6130 > 10         0         4         <1           Lead         ppm         ASTM D6130 > 10         0         <1	Iron	ppm	ASTM D6130	>15	0		
Lead         ppm         ASTM D6130         >10         0         <1         0           Tin         ppm         ASTM D6130         >10         0         <1	Aluminum	ppm	ASTM D6130	>10	<1	_	4
Tin         ppm         ASTM D6130         >10         0         <1         0           Zinc         ppm         ASTM D6130         0         7         2           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         1         23         29           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3797         3034         3630           Potassium         ppm         ASTM D6130         779         72         874           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         <1         9         6	Copper	ppm	ASTM D6130	>10	0	4	<1
Zinc         ppm         ASTM D6130         0         7         2           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         1         23         29           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3797         3034         3630           Potassium         ppm         ASTM D6130         779         72         874           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         <1         9         6	Lead	ppm	ASTM D6130	>10	0	<1	0
CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         1         23         29           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3797         3034         3630           Potassium         ppm         ASTM D6130         779         72         874           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         <1	Tin	ppm	ASTM D6130	>10	0	<1	0
Chlorine         ppm         ASTM D6130         1         23         29           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3797         3034         3630           Potassium         ppm         ASTM D6130         779         72         874           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         <1         9         6	Zinc	ppm	ASTM D6130		0	7	2
CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3797         3034         3630           Potassium         ppm         ASTM D6130         779         72         874           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         <1	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium         ppm         ASTM D6130         3797         3034         3630           Potassium         ppm         ASTM D6130         779         72         874           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         <1         9         6	Chlorine	ppm	ASTM D6130		1	23	29
Potassium         ppm         ASTM D6130         779         72         874           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         <1	CARRIER SALTS		method	limit/base	current	history1	history2
Potassium         ppm         ASTM D6130         779         72         874           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         <1	Sodium	ppm	ASTM D6130		3797	3034	3630
Calcium ppm ASTM D6130 <1 9 6	Potassium		ASTM D6130		779	72	874
PP	SCALE POTENTI	AL	method	limit/base	current	history1	history2
Magnesium ppm ASTM D6130 <1 6	Calcium	ppm	ASTM D6130		<1	9	6
	Magnesium	ppm	ASTM D6130		<1	6	2



# **COOLANT REPORT**









Laboratory Sample No. Lab Number

Unique Number

: WC0833794 : 05978587 : 10695882

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Oct 2023

Diagnosed : 18 Oct 2023 Diagnostician : Jonathan Hester

Test Package : COOL- ( Additional Tests: COOL, ICP )

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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