## CORROSION CONTAMINANTS COOLANT CONDITION

NORMAL NORMAL NORMAL

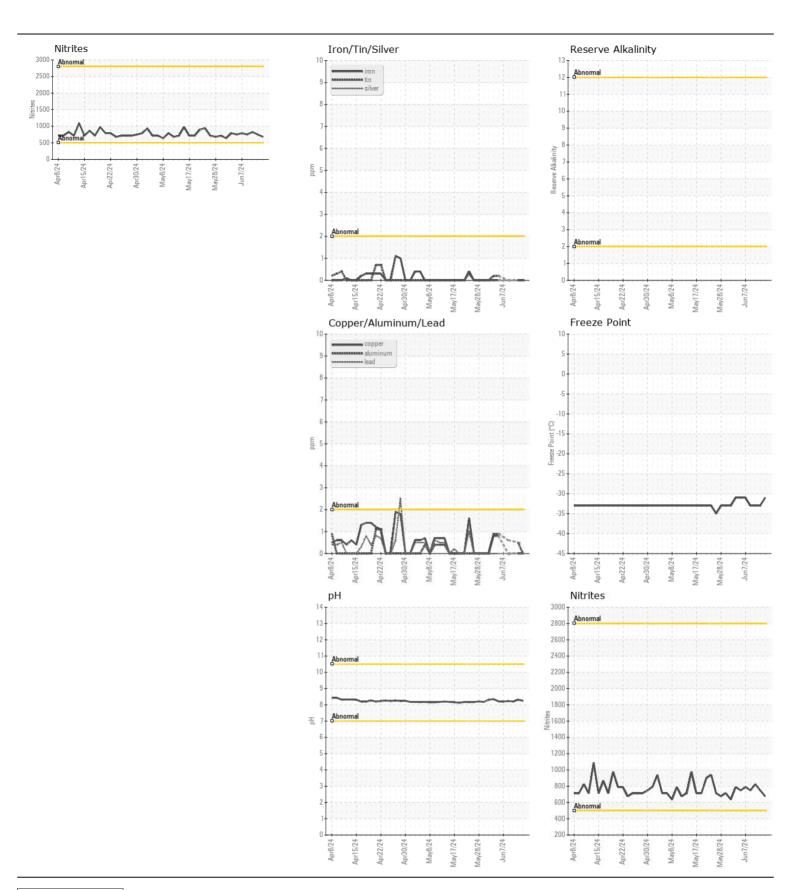
WCLSNC Machine Id

## QC COOL ELC NC 09012022

Coolant

CAT EXTENDED LIFE COOLANT (ELC) (--- GAL)

Sample Number   Client Info   WC0952332   WC0952325   WC0952325   WC0952325   WC0952325   Sample Date   Client Info   O   O   O   O   O   O   O   O   O	CAT EXTENDED LIFE COOLANT (ELC) ( GAL	<u>-)</u>				.,		
Sample Date   Client Info   Q1 un 2024   14 Jun 2024   13 Jun 2024   1	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date   Client Info   21 Jun 2024   14 Jun 2024   13 Jun 2025   14 Jun 2024   14 Jun 2024   13 Jun 2025   14 Jun 2024	No corrective action is recommended at this time. The fluid is suitable for further service.	Sample Number		Client Info		WC0952332	WC0952325	WC0952324
Oil Age		Sample Date		Client Info		21 Jun 2024	14 Jun 2024	13 Jun 2024
Dit Changed   Cilient Into   N/A   NORMAL   N		Machine Age	hrs	Client Info		0	0	0
Sample Status   NORMAL   NO		Oil Age	hrs	Client Info		0	0	0
Iron		Oil Changed		Client Info		N/A	N/A	N/A
Aluminum		Sample Status				NORMAL	NORMAL	
Copper   ppm   ASTM D6130   >2   0   0	CORROSION	Iron	ppm	ASTM D6130	>2	0	0	
Copper   ppm   ASTM D6130   22   0   0   0	All metal levels are normal indicating no corrosion in the cooling system.	Aluminum	ppm	ASTM D6130	>2	0	<1	
Tin ppm ASTM D6130 >2 0 0 0 ··· Zinc ppm ASTM D6130 >10 0 0 ··· Zinc ppm ASTM D6130 >5 0 0 ··· There is no indication of any contamination in the coolant.    Calcium ppm ASTM D6130 >5 0 0 ···   Magnesium ppm ASTM D6130 >6 0 <1 ···   Total Dissolved Salids   Z76.5 294.0 358.0     Coolant Appearance visual Clear normal norm		Copper	ppm	ASTM D6130	>2	0	0	
Zinc   ppm   ASTM D6130   >10   0   0		Lead	ppm	ASTM D6130	>2	0	0	
Calcium ppm ASTM D6130 >5 0 0 There is no indication of any contamination in the coolant.  Chlorine ppm ASTM D6130 >6 0 <1 Total Dissolved Solids Coolant Appearance "Visual Clear normal normal normal normal savel of this fluid is within the acceptable limits.  Boiling Point "C WC Method 225 225 225 225  Carboxylate test failed. Glycol and nitrite levels are acceptable. The pH avel of this fluid is within the acceptable limits.  Boiling Point "C WC Method 225 225 225 225  Specific Gravity "ASTM D1287 8.25 8.31 8.20  Nitrites ppm AP-0532009 676 748 824  Reserve Alkalinity Scale 029 "ASTM D1121 Percentage Glycol "ASTM D13321 48.9 49.0 49.1  Freezing Point "F ASTM D6130 0 <1 1 1 Phosphorus ppm ASTM D6130 0 0 0 0 Boron ppm ASTM D6130 0 0 0 0 Molybdenum ppm ASTM D6130 0 0 0 0 Sodium ppm ASTM D6130 3943 4212 Potassium ppm ASTM D6130 3943 4212		Tin	ppm	ASTM D6130	>2	0	0	
Chlorine   ppm   ASTM D6130   0   <1		Zinc	ppm	ASTM D6130	>10	0	0	
Magnesium   ppm   ASTM D6130   >6   0   <1       Total Dissolved Solids   Coolant Appearance   *Visual   Clear   normal   normal   normal     Normal   Normal   Normal   Normal   Normal   Normal   Normal     Normal   Ppm   ASTM D6130   >6   0   <1       276.5   294.0   358.0     276.5   294.0   358.0     276.5   294.0   358.0     Coolant Appearance   *Visual   Clear   normal   Normal     Normal   Normal     Normal   Normal   Normal     Normal	CONTAMINANTS	Calcium	ppm	ASTM D6130	>5	0	0	
Total Dissolved Solids Coolant Appearance *Visual Clear normal N	There is no indication of any contamination in the coolant.	Chlorine	ppm	ASTM D6130		0	<1	
Coolant Appearance   *Visual   Clear   normal   normal   normal		Magnesium	ppm	ASTM D6130	>6	0	<1	
Boiling Point   °C   WC Method   225   225   225     Carboxylate test failed. Glycol and nitrite levels are acceptable. The pH evel of this fluid is within the acceptable limits.		Total Dissolved Solids				276.5	294.0	358.0
Carboxylate test failed. Glycol and nitrite levels are acceptable. The pH evel of this fluid is within the acceptable limits.    Specific Gravity   "ASTM D1298   1.066   1.0		Coolant Appearance		*Visual	Clear	normal	normal	normal
pH Scale 0-14 ASTM D1287 8.25 8.31 8.20  Nitrites ppm AP-053:2009 676 748 824  Reserve Alkalinity Scale 0-20 *ASTM D1121  Percentage Glycol % ASTM D3321 48.9 49.0 49.1  Freezing Point °F ASTM D3321 -31 -33 -33  Carboxylate Silicon ppm ASTM D6130 0 <1 1  Phosphorus ppm ASTM D6130 0 0 0  Boron ppm ASTM D6130 0 0 0  Molybdenum ppm ASTM D6130 950 683 698  Sodium ppm ASTM D6130 3943 4212  Potassium ppm ASTM D6130 4 3	COOLANT CONDITION	Boiling Point	°C	WC Method		225	225	225
Nitrites ppm AP-053:2009 676 748 824  Reserve Alkalinity Scale 0-20 *ASTM D1121  Percentage Glycol % ASTM D3321 48.9 49.0 49.1  Freezing Point °F ASTM D3321 -31 -33 -33  Carboxylate fail fail fail ▲ fail  Silicon ppm ASTM D6130 0 -1 1  Phosphorus ppm ASTM D6130 0 0 0 0  Boron ppm ASTM D6130 0 0 0 0  Molybdenum ppm ASTM D6130 950 683 698  Sodium ppm ASTM D6130 3943 4212  Potassium ppm ASTM D6130 0 4 3 3	Carboxylate test failed. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.	Specific Gravity		*ASTM D1298		1.066	1.066	1.066
Reserve Alkalinity       Scale 0-20       *ASTM D1121		рН	Scale 0-14	ASTM D1287		8.25	8.31	8.20
Percentage Glycol       %       ASTM D3321       48.9       49.0       49.1         Freezing Point       °F       ASTM D3321       -31       -33       -33         Carboxylate       Fail       fail       fail       fail       fail         Silicon       ppm       ASTM D6130       0       0       0          Phosphorus       ppm       ASTM D6130       0       0       0          Boron       ppm       ASTM D6130       950       683       698          Molybdenum       ppm       ASTM D6130       3943       4212          Potassium       ppm       ASTM D6130       4       3		Nitrites	ppm	AP-053:2009		676	748	824
Freezing Point       °F       ASTM D3321       -31       -33       -33         Carboxylate       fail       fail       ▲ fail         Silicon       ppm       ASTM D6130       0       <1       1          Phosphorus       ppm       ASTM D6130       0       0       0          Boron       ppm       ASTM D6130       0       0       0          Molybdenum       ppm       ASTM D6130       950       683       698          Sodium       ppm       ASTM D6130       3943       4212          Potassium       ppm       ASTM D6130       4       3		Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Carboxylate         fail         fail         ▲ fail           Silicon         ppm         ASTM D6130         0         <1         1            Phosphorus         ppm         ASTM D6130         0         0         0            Boron         ppm         ASTM D6130         0         0         0            Molybdenum         ppm         ASTM D6130         950         683         698            Sodium         ppm         ASTM D6130         3943         4212            Potassium         ppm         ASTM D6130         4         3		Percentage Glycol	%	ASTM D3321		48.9	49.0	49.1
Silicon         ppm         ASTM D6130         0         <1		Freezing Point	°F	ASTM D3321		-31	-33	-33
Phosphorus         ppm         ASTM D6130         0         0         0            Boron         ppm         ASTM D6130         0         0         0            Molybdenum         ppm         ASTM D6130         950         683         698            Sodium         ppm         ASTM D6130         3943         4212            Potassium         ppm         ASTM D6130         4         3		Carboxylate				fail	fail	▲ fail
Boron         ppm         ASTM D6130         0         0         0            Molybdenum         ppm         ASTM D6130         950         683         698            Sodium         ppm         ASTM D6130         3943         4212            Potassium         ppm         ASTM D6130         4         3		Silicon	ppm	ASTM D6130	0	<1	1	
Molybdenum         ppm         ASTM D6130         950         683         698            Sodium         ppm         ASTM D6130         3943         4212            Potassium         ppm         ASTM D6130         4         3		Phosphorus	ppm	ASTM D6130	0	0	0	
Sodium         ppm         ASTM D6130         3943         4212            Potassium         ppm         ASTM D6130         4         3		Boron	ppm	ASTM D6130	0	0	0	
Potassium ppm ASTM D6130 4 3		Molybdenum	ppm	ASTM D6130	950	683	698	
		Sodium	ppm	ASTM D6130		3943	4212	
Coolant Color *Visual Red Red Red			ppm	ASTM D6130		4		
		Coolant Color		*Visual		Red	Red	Red





Laboratory Sample No.

Lab Number : 06217243

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0952332

Received **Tested** 

Unique Number : 11090107 Diagnosed Test Package: COOL- (Additional Tests: GlycolType, ICP)

: 21 Jun 2024

: 26 Jun 2024

: 26 Jun 2024 - Jonathan Hester

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)

WEARCHECK LUBRICATION SERVICES QA ACCOUNT

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Cary, NC US 27513

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