

COOLANT REPORT

WCLSNC Machine Id QC COOL ELC NC 09012022

Component Coolant

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

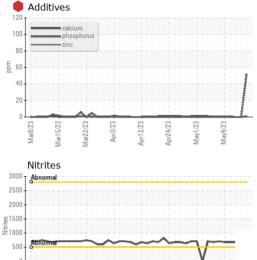
DIAGNOSIS



Nitrites ppm AP-053:2009 676 676 676 676 Reserve Alkalinity Scale 0:20 'ASTM D1121 Percentage Glycol % ASTM D3321 50.0 49.8 49.8 Freezing Point °F ASTM D3321 -35 -33 -33 Total Dissolved Solids 341.0 324.5 333.5 Carboxylate pass pass pass pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 21 7 6 Phosphorus ppm ASTM D6130 0 52 0 0 Boron ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >2 1 0 0 Copper ppm <	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status Image Client Info N/A N/A N/A PHYSICAL TEST RESULTS method imit/base current history1 history2 Specific Gravity 'ASTM D1287 1.067 1.067 1.067 pH Sale044 ASTM D1287 8.11 8.19 8.15 Nitrites pm AP.053.2009 676 676 676 Reserve Alkalinity Scale040 'ASTM D1321 Percentage Glycol % ASTM D3321 50.0 49.8 49.8 Freezing Point °F ASTM D6130 0 224.5 333.5 CARBOSION INHEIDERS method imit/base current history1 history2 Silicon ppm ASTM D6130 0 22 0 0 Boron	Sample Number		Client Info		WC0817096	WC0817094	WC0817089
Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A PHYSICAL TEST RESULTS method limit/base current history1 history2 Specific Gravity 'ASTM D1298 1.067 1.067 1.067 pH Scale0.14 ASTM D1297 8.11 8.19 8.15 Nitrites ppm AP-053:200 676 676 676 Reserve Alkalinity Scale0.20 'ASTM D1321 Percentage Glycol 'A ASTM D3321 50.0 49.8 49.8 Freezing Point 'F ASTM D3321 -35 -33 -33 Total Dissolved Solids 341.0 324.5 333.5 Carboxylate pm ASTM D6130 0 21 7 6 Phosphorus ppm ASTM D6130 0 22 0 0 Boron ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2	Sample Date		Client Info		18 May 2023	16 May 2023	11 May 2023
Oil Changed Client Info N/A N/A N/A N/A Sample Status Imit/base current NoRMAL NORMAL PHYSICAL TEST RESULTS method Imit/base current history1 history2 Specific Gravity 'ASTM D1287 8.11 8.19 8.15 Nitrites pp AP-053:2009 676 676 676 Reserve Alkalinity Scale 0:4 ASTM D1287 50.0 49.8 49.8 Freezing Point °F ASTM D3321 -05.5 -33 -33 Colarboxylate °F ASTM D3321 -35 -33 -33 Colarboxylate °F ASTM D6130 0 22.4 0 0 Silicon pp ASTM D6130 0 52 0 0 0 Silicon pp ASTM D6130 0 22 0 0 0 Boron pp ASTM D6130 2 1 0 0 0	Machine Age	hrs	Client Info		0	0	0
Sample Status SEVERE NORMAL NORMAL PHYSICAL TEST RESULTS method limit/base current history1 history2 Specific Gravity 'ASTM D1298 1.067 1.067 1.067 pH Scale 0:41 ASTM D1297 8.11 8.19 8.15 Nitrites ppm AP-053:2009 676 676 676 Reserve Alkalinity Scale 0:20 'ASTM D1297 50.0 49.8 49.8 Freezing Point °F ASTM D3321 -35 -33 -33 Total Dissolved Solids 341.0 324.5 333.5 Correct history1 history2 Silicon ppm ASTM D6130 0 21 7 6 Phosphorus ppm ASTM D6130 0 22 0 0 Boron ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2 Ir	Oil Age	hrs	Client Info		0	0	0
PHYSICAL TEST RESULTS method limit/base current history1 history2 Specific Gravity 'ASTM D1298 1.067 1.067 1.067 pH Scale 0.44 ASTM D1297 8.11 8.19 8.15 Nitrites ppm AP-053:2009 676 676 676 676 Reserve Alkalinity Scale 0.44 ASTM D1291 Percentage Glycol % ASTM D1321 50.0 49.8 49.8 Freezing Point °F ASTM D321 -35 -33 -33 Total Dissolved Solids	Oil Changed		Client Info		N/A	N/A	N/A
Specific Gravity 'ASTM D1298 1.067 1.067 pH Scale 0-14 ASTM D1287 8.11 8.19 8.15 Nitrites ppm AP-053-2009 676 676 676 Reserve Alkalinity Scale 0-20 'ASTM D121 Percentage Glycol % ASTM D3221 50.0 49.8 49.8 Freezing Point °F ASTM D321 -35 -33 -33 Total Dissolved Solids 341.0 324.5 333.5 Carboxylate pass pass pass pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 52 0 0 Boron ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 2 1 0	Sample Status				SEVERE	NORMAL	NORMAL
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Reserve Alkalinity Percentage Glycol *ASTM D1121 Percentage Glycol % ASTM D3321 50.0 49.8 49.8 Freezing Point °F ASTM D3321 -35 -33 -33 Total Dissolved Solids 341.0 324.5 333.5 Gason gass pass Quintains Quintains Quintains Quintains Quintains Quintains Quintains Quintains	рН	Scale 0-14	ASTM D1287		8.11	8.19	8.15
Percentage Glycol % ASTM D3321 50.0 49.8 49.8 Freezing Point °F ASTM D3321 -35 -33 -33 Total Dissolved Solids 341.0 324.5 333.5 Carboxylate Imit/base current history1 history2 Silicon ppm ASTM D6130 0 21 7 6 Phosphorus ppm ASTM D6130 0 52 0 0 Boron ppm ASTM D6130 0 22 0 0 Molybdenum ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >2 0 0 0 Aluminum ppm ASTM D6130 >2 1 0 0 Iron ppm ASTM D6130 >2 1 0 0 Iron ppm	Nitrites	ppm	AP-053:2009		676	676	676
Freezing Point °F ASTM D3321 -35 -33 -33 Total Dissolved Solids 341.0 324.5 333.5 Carboxylate pass pass pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 21 7 6 Phosphorus ppm ASTM D6130 0 52 0 0 Boron ppm ASTM D6130 0 22 0 0 Molybdenum ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >2 0 0 0 Copper ppm ASTM D6130 >2 1 0 0 Lead ppm ASTM D6130 >2 <1	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids 341.0 324.5 333.5 Carboxylate 9ass 9ass 9ass 9ass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 0 21 7 6 Phosphorus ppm ASTM D6130 0 52 0 0 Boron ppm ASTM D6130 0 52 0 0 Boron ppm ASTM D6130 0 22 0 0 Molybdenum ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >2 0 0 0 Copper ppm ASTM D6130 >2 1 0 0 Lead ppm ASTM D6130 >2 <1	3 ,						
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CORROSION INHIBITORSmethodlimit/basecurrenthistory1history2SiliconppmASTM D613002176PhosphorusppmASTM D613005200BoronppmASTM D613002200MolybdenumppmASTM D6130950116911441049CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>2000AluminumppmASTM D6130>2<1					341.0	324.5	333.5
Silicon ppm ASTM D6130 0 21 7 6 Phosphorus ppm ASTM D6130 0 52 0 0 Boron ppm ASTM D6130 0 52 0 0 Molybdenum ppm ASTM D6130 0 22 0 0 Molybdenum ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >2 0 0 0 Aluminum ppm ASTM D6130 >2 1 0 0 Copper ppm ASTM D6130 >2 1 0 0 Lead ppm ASTM D6130 >2 1 0 0 Zinc ppm ASTM D6130 >2 <1 0 0 Chlorine pp ASTM D6130 39 <1 0 0 <th>Carboxylate</th> <th></th> <th></th> <th></th> <th>pass</th> <th>pass</th> <th>pass</th>	Carboxylate				pass	pass	pass
Phosphorus ppm ASTM D6130 0 52 0 0 Boron ppm ASTM D6130 0 22 0 0 Molybdenum ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >2 0 0 0 Aluminum ppm ASTM D6130 >2 <1 0 0 Lead ppm ASTM D6130 >2 <1 0 0 Zinc ppm ASTM D6130 >2 <1 0 0 Zinc ppm ASTM D6130 >2 1 0 0 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 >2 <1 0 0 CARRIER SALTS method limit/base current history1 <t< th=""><th>CORROSION INH</th><th>BITORS</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	CORROSION INH	BITORS	method	limit/base	current	history1	history2
Boron ppm ASTM D6130 0 22 0 0 Molybdenum ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >2 0 0 0 Aluminum ppm ASTM D6130 >2 4 0 0 Copper ppm ASTM D6130 >2 4 0 0 Lead ppm ASTM D6130 >2 4 0 0 Zinc ppm ASTM D6130 >2 4 0 0 Zinc ppm ASTM D6130 >2 4 0 0 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 2 4 0 0 Sodium ppm ASTM D6130 5 5770 5708 5628	Silicon	ppm	ASTM D6130	0	21	7	6
Molybdenum ppm ASTM D6130 950 1169 1144 1049 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >2 0 0 0 Aluminum ppm ASTM D6130 >2 <1	Phosphorus	ppm	ASTM D6130	0	6 52	0	0
CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>2000AluminumppmASTM D6130>2<100CopperppmASTM D6130>2100LeadppmASTM D6130>2<100TinppmASTM D6130>2<100ZincppmASTM D6130>2<100CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D61302<100CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D61305777057085628PotassiumppmASTM D613011600SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130>5<100	Boron	ppm	ASTM D6130	0	• 22	0	0
Iron ppm ASTM D6130 >2 0 0 0 Aluminum ppm ASTM D6130 >2 <1 0 0 Copper ppm ASTM D6130 >2 1 0 0 Lead ppm ASTM D6130 >2 <1 0 0 Lead ppm ASTM D6130 >2 <1 0 0 Tin ppm ASTM D6130 >2 <1 0 0 Zinc ppm ASTM D6130 >2 <1 0 0 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 _ 39 <1 0 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 _ 57770 5708 5628 Potassium ppm ASTM D6130 >5 <1 0 0	Molybdenum	ppm	ASTM D6130	950	1169	1144	1049
Aluminum ppm ASTM D6130 >2 <1	CORROSION		method	limit/base	current	history1	history2
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Lead ppm ASTM D6130 >2 <1 0 0 Tin ppm ASTM D6130 >2 1 0 0 Zinc ppm ASTM D6130 >2 1 0 0 Zinc ppm ASTM D6130 >2 <1 0 0 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 39 <1 0 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5770 5708 5628 Potassium ppm ASTM D6130 5770 5708 5628 Sodium ppm ASTM D6130 116 0 0 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 >5 <1 0 0	Aluminum	ppm	ASTM D6130	>2	<1	0	0
Tin ppm ASTM D6130 >2 1 0 0 Zinc ppm ASTM D6130 >2 <1	Copper	ppm	ASTM D6130	>2	1	0	0
ZincppmASTM D6130>2<100ZincppmASTM D6130>2<100CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613039<10CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D61305777057085628PotassiumppmASTM D613011600SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61305<100	Lead	ppm	ASTM D6130	>2	<1	0	0
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ChlorineppmASTM D613039<10CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D61305777057085628PotassiumppmASTM D613011600SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61305<1	Zinc	ppm	ASTM D6130	>2	<1	0	0
CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 ▲ 5770 5708 5628 Potassium ppm ASTM D6130 ● 116 0 0 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 >5 <1 0 0	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D6130 5770 5708 5628 Potassium ppm ASTM D6130 116 0 0 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 >5 <1	Chlorine	ppm	ASTM D6130		39	<1	0
Potassium ppm ASTM D6130 116 0 0 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 >5 <1 0 0	CARRIER SALTS		method	limit/base	current	history1	history2
PotassiumppmASTM D613011600SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130>5<1	Sodium	ppm	ASTM D6130		6 5770	5708	5628
Calcium ppm ASTM D6130 >5 <1 0 0	Potassium		ASTM D6130			0	0
	SCALE POTENTI	AL	method	limit/base	current	history1	history2
	Calcium	ppm	ASTM D6130	>5	<1	0	0
	Magnesium	ppm					





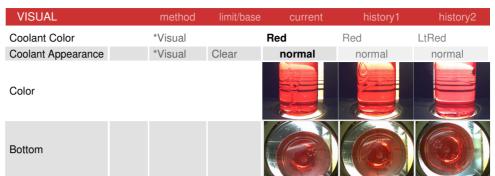


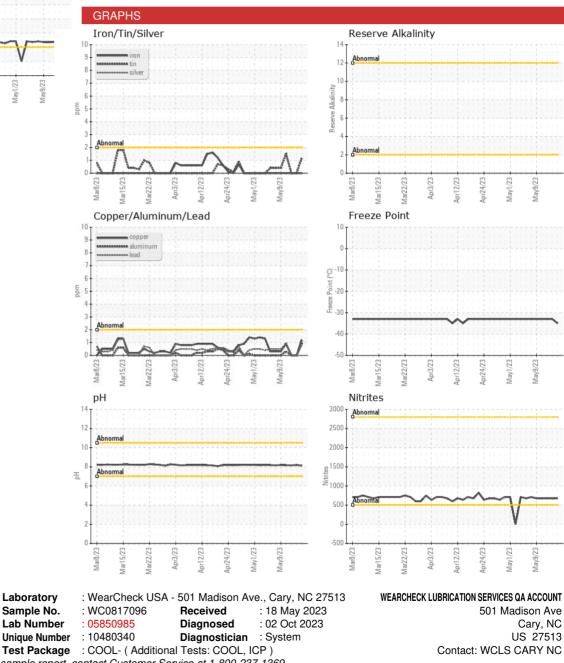
nr12/73

Aav1/23

Iar22/23

Mar15/23







Test Package : COOL- (Additional Tests: COOL, ICP) Certificate L2367 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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