COOLANT REPORT

Sample Rating Trend





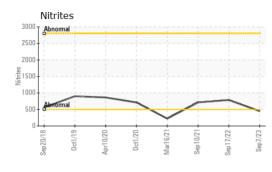
OKLAHOMA/102/EG - OTHER SERVICE 20.016L [OKLAHOMA^102^EG - OTHER SERVICE] Component Coolant Fluid

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

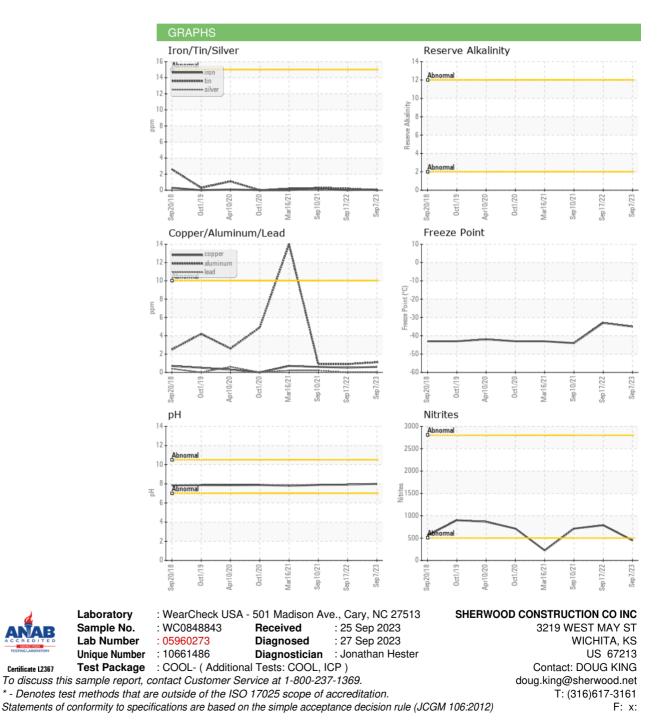
No corrective action is recommended at this time. The fluid is suitable for further service.Sample DateClient Info07 Sep 202317 Sep 202210 Sep 2021Machine AgehrsClient Info228919531630CorrosionOil AgehrsClient Info50019531000All metal levels are normal indicating no corrosion in the cooling system.Oil ChangedClient InfoNot ChangdN/ANot ChangdContaminants There is no indication of any contamination in thePHYSICAL TEST RESULTSMethodlimit/basecurrenthistory1history2								
No corrective action is recommended at this time. Sample Date Client Info 07 Sep 2023 17 Sep 2022 10 Sep 2021 Machine Age hrs Client Info 500 1953 1630 All metal levels are normal indicating no corrosion in the cooling system. Collent Info 500 1953 1000 Contaminants There is no indication of any contamination in the coolant. Collent Info Not Changd NA Not Changd Coloant Condition Carboxylate test failed. The glycol level is acceptable. In the pi level of this fluid is within the acceptable. In the pi level of this fluid is within the acceptable. In the pi level of this fluid is within the acceptable. In this orgen withis orgen withis orgen within the acceptable. In this orgen withis	DIAGNOSIS	SAMPLE INFOR	MATION	method				history2
The fluid is suitable for further service. Machine Age hrs Client Info 2289 1953 1630 Corrosion Machine Age hrs Client Info S00 1953 1000 All metal levels are normal indicating no corrosion in the coolant. Contaminants NorthAll NORMAL NORMAL <t< th=""><th>Recommendation</th><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>WC0848843</th><th>WC0738457</th><th>WC0590288</th></t<>	Recommendation	Sample Number		Client Info		WC0848843	WC0738457	WC0590288
Corrosion All metal levels are normal indicating no corrosion in the cooling system. Collent into Sol (Mage Files Client into Sol (Mage) Nort Changel (Mage) Nort Male Nort Changel (Mage) Nort Male Nort Changel (Mage) Nort Male Nort Male Nort Male Nort Male Nort Male Sol carboxylate targe plant plant station plant statintris Sol dation S	No corrective action is recommended at this time. The fluid is suitable for further service.	Sample Date		Client Info		07 Sep 2023	17 Sep 2022	10 Sep 2021
All metal layeds are normal indicating no corrosion in the cooling system. Oil Changed Client Info Not Changd NAA Not Changd Contaminants There is no indication of any contamination in the coolant. PHYSICAL TEST RESULTS method Initbase current history1 NoRMAL Normal </td <td>Machine Age</td> <td>hrs</td> <td>Client Info</td> <td></td> <th>2289</th> <td>1953</td> <td>1630</td>		Machine Age	hrs	Client Info		2289	1953	1630
in the cooling system. Contaminants Sample Status NORMAL NORMAL NORMAL NORMAL Contaminants There is no indication of any contamination in the colant. Imit Sample Status	Corrosion	Oil Age	hrs	Client Info		500	1953	1000
Notation of any contamination in the collard PHYSICAL TEST RESULTS method introduction Colant: Condition Colant: Condition Colant: Condition Colspan="2">Colspan="2">Colspan="2">Asymptic field with the saceptable limits. APUSICAL TEST RESULTS Colspan="2">Nitrites APUSICAL TEST RESULTS Colspan="2">Nitrites Colspan="2">Asymptic introduction Colspan="2">Asymptic introduction Colspan="2">Asymptic introduction Asymptic introduction Colspan="2">Colspan="2">Asymptic introduction Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2"	All metal levels are normal indicating no corrosion	Oil Changed		Client Info		Not Changd	N/A	Not Changd
PHYSICAL TEST RESULTS method limitbase current Inistory1 Inistory2 Specific Gravity "ASTM D1238 1.068 1.067 Coolant Condition Carboxylate test failed. The glycol level is acceptable limits. Specific Gravity "ASTM D1287 7.99 7.91 7.89 7.79	in the cooling system.	Sample Status				NORMAL	NORMAL	NORMAL
Colant Condition pH Scale 0.44 ASTM D1287 7.99 7.91 7.89 Carboxylate test failed. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits. PM Preserve Alkalinity Scale 0.21 YSTM D1121	Contaminants There is no indication of any contamination in the	PHYSICAL TEST I	RESULTS	s method	limit/base	current	history1	history2
Carboxylate test failed. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits. Nitrites ppm AP-6532009 448 788 712 Reserve Alkalinity Scale 503 'ASTM D121 Percentage Glycol % ASTM D3321 50.4 49.4 52 Percentage Glycol % ASTM D3321 50.4 49.4 52 Total Dissolved Solids 384.0 380.0 487.5 Carboxylate Image: State St	coolant.	Specific Gravity		*ASTM D1298		1.068	1.067	
Beserve Alkalinity Sade 020 'ASTM D1121 Percentage Glycol % ASTM D3321 50.4 49.4 52 Freezing Point °F ASTM D3321 -35 -33 -44 Total Dissolved Solids 394.0 380.0 487.5 Carboxylate 1 fail fa	Coolant Condition	рН	Scale 0-14	ASTM D1287		7.99	7.91	7.89
acceptable limits. Percentage Glycol % ASTM D3321 50.4 49.4 52 Freezing Point °F ASTM D3321 -35 -33 -44 Total Dissolved Solids 394.0 380.0 487.5 Carboxylate Imit Dasso reait fail fail <td< td=""><th></th><td>Nitrites</td><td>ppm</td><td>AP-053:2009</td><td></td><th>448</th><td>788</td><td>712</td></td<>		Nitrites	ppm	AP-053:2009		448	788	712
Freezing Point * ASTM B0321 -35 -33 -44 Total Dissolved Solids 394.0 380.0 487.5 Carboxylate Imility Dase fail	acceptable. The pH level of this fluid is within the	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids394.0380.0487.5CarboxylateIImitfailfailfailfailCORROSION INHIBITORSmethodimit/basecurrenthistory1history2SiliconppmASTM 061300122121PhosphorusppmASTM 0613000812BoronppmASTM 061300222MolybdenumppmASTM 06130950917954921CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM 06130>15<1	acceptable limits.	Percentage Glycol	%	ASTM D3321		50.4	49.4	52
CarboxylatefailfailfailCORROSION INHIBITORSmethodlimit/basecurrenthistorylhistorylSiliconppmASTM D61300122121PhosphorusppmASTM D613000812BoronppmASTM D61300222MolybdenumppmASTM D6130950917954921CORROSIONmethodlimit/basecurrenthistorylhistorylIronppmASTM D6130>15<1		Freezing Point	°F	ASTM D3321		-35	-33	-44
CORROSION INHIBITORSmethodSiliconppmASTM D6130012212121PhosphorusppmASTM D613000812BoronppmASTM D61300222MolybdenumppmASTM D6130950917954921CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<1		Total Dissolved Solids				394.0	380.0	487.5
Silicon ppm ASTM D6130 0 12 21 21 Phosphorus ppm ASTM D6130 0 0 8 12 Boron ppm ASTM D6130 0 2 2 2 Molybdenum ppm ASTM D6130 950 917 954 921 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1		Carboxylate				fail	fail	fail
Phosphorus ppm ASTM D6130 0 0 8 12 Boron ppm ASTM D6130 0 2 2 2 Molybdenum ppm ASTM D6130 950 917 954 921 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1		CORROSION INF	IBITORS	6 method	limit/base	current	history1	history2
BoronppmASTM D61300222MolybdenumppmASTM D6130950917954921CORROSIONmethodimit/basecurrenthistory1history2IronppmASTM D6130>15<1		Silicon	ppm	ASTM D6130	0	12	21	21
MolybdenumppmASTM D6130950917954921CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<1		Phosphorus	ppm	ASTM D6130	0	0	8	12
MethodImit/basecurrenthistory1history2IronppmASTM D6130>15<1		Boron	ppm	ASTM D6130	0	2	2	2
IronppmASTM D6130>15<10<1AluminumppmASTM D6130>101<1		Molybdenum	ppm	ASTM D6130	950	917	954	921
AluminumppmASTM D6130>101<1		CORROSION		method	limit/base	current	history1	history2
CopperppmASTM D6130>10<1<1<1LeadppmASTM D6130>1000<1		Iron	ppm	ASTM D6130	>15	<1	0	<1
LeadppmASTM D6130>100<1TinppmASTM D6130>100<1		Aluminum	ppm	ASTM D6130	>10	1	<1	<1
TinppmASTM D6130>100<1<1ZincppmASTM D61300<1<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613061525CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130541830813210PotassiumppmASTM D61301478878956SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130244		Copper	ppm	ASTM D6130	>10	<1	<1	<1
ZincppmASTM D61300<1<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613061525CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130541830813210PotassiumppmASTM D61301478878956SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130244		Lead	ppm	ASTM D6130	>10	0	0	<1
CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613061525CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130541830813210PotassiumppmASTM D61301478878956SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130244		Tin	ppm	ASTM D6130	>10	0	<1	<1
ChlorineppmASTM D613061525CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130541830813210PotassiumppmASTM D61301478878956SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130244		Zinc	ppm	ASTM D6130		0	<1	<1
CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130541830813210PotassiumppmASTM D61301478878956SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130244		CONTAMINANTS	5	method	limit/base	current	history1	history2
SodiumppmASTM D6130541830813210PotassiumppmASTM D61301478878956SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130244		Chlorine	ppm	ASTM D6130		6	15	25
PotassiumppmASTM D61301478878956SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130244			3		limit/base	current		
SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130244		Sodium	ppm	ASTM D6130		5418	3081	3210
Calcium ppm ASTM D6130 2 4 4		Potassium	ppm	ASTM D6130		1478	878	956
		SCALE POTENT	IAL	method	limit/base	current	history1	history2
Magnesium ppm ASTM D6130 2 4 4		Calcium	ppm	ASTM D6130		2	4	4
		Magnesium	ppm	ASTM D6130		2	4	4



COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Red	Red	Red
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color					
Bottom				6	



Submitted By: PATRICIA BIBLE

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