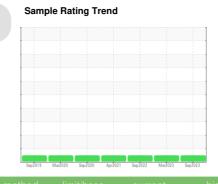
Fluid

## **COOLANT REPORT**

## OKLAHOMA/102/EG - LOADER 45.43L [OKLAHOMA^102^EG - LOADER]





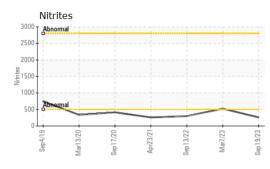
NORMAL

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

bic corrective action is recommended at his time.   Sample Date   Client Info   19 Sep 2023   07 Mar 2023   13 Sep 2022     bin fuild is suitable for further service.   Sorrosion   10 Gl Age   hrs   Client Info   1000   1000   1000     ull metal levels are normal indicating no corrosion   the cooling system.   Not Changd   Not	DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
he fluid is suitable for further service.   Machine Age   hrs   Client Info   5461   4964   4357     bird set are normal indicating no corrosion   Interal levels are normal indicating no corrosion   Not Changd	Recommendation	Sample Number		Client Info		WC0848997	WC0778248	WC0741087
Sorrosion Machine Age Ins Client Initio Sord 430-4 430-5 430-5   ull metal levels are normal indicating no corrosion in the cooling system. Oil Age Client Info Not Changed Not Not Not Changed Not	No corrective action is recommended at this time. The fluid is suitable for further service.	Sample Date		Client Info		19 Sep 2023	07 Mar 2023	13 Sep 2022
III meta levels are normal indicating no corrosion in the cooling system.   Oil Changed   Client Info   Not Changd   Not Changd <td< td=""><th>Machine Age</th><td>hrs</td><td>Client Info</td><td></td><th>5461</th><td>4964</td><td>4357</td></td<>		Machine Age	hrs	Client Info		5461	4964	4357
Sample Status     NORMAL     NORMAL     NORMAL       Softmininands     Fore is no indication of any contamination in the colant.     PHYSICAL TEST RESULTS     method     Imitbase     current     History1     Alstory2       Softmininands     ASTM D128     1.068	Corrosion	Oil Age	hrs	Client Info		1000	1000	1000
Contaminants   Pert Status	All metal levels are normal indicating no corrosion	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
PHYSIGAL TEST RESULTS     method     limit/base     current     history1     history2       Specific Gravity     ''ASTM D1281     1.068     1.068     1.068     1.068       Sociant Condition     Specific Gravity     ''ASTM D1287     7.20     7.17     7.12       Scatooxylate test failed. The glycol level is fluid is within the cceptable limits.     PH     SeleViti ASTM D1287	n the cooling system.	Sample Status				NORMAL	NORMAL	NORMAL
Decolant Condition     pH     State 0-14     ASTM D1287     7.20     7.17     7.12       Nutrites     ppm     AP-053.200     260     524     300       coceptable. The glycol level is coceptable limits.     ppm     AP-053.200     260     524     300       Percentage Glycol     %     ASTM D121          Percentage Glycol     %     ASTM D321     50.3     50.4     50.2       Precentage Glycol     %     ASTM D322          Correct/Co	Contaminants There is no indication of any contamination in the	PHYSICAL TEST I	RESULTS	s method	limit/base	current	history1	history2
Arrboxylate test failed. The glycol level is cceptable limits.     Nitrites     ppm     AP-0532009     260     524     300       Reserve Alkalinity     Scate/02     *ASTM D121          Percentage Glycol     %     ASTM D3321     50.3     50.4     50.2       Percentage Glycol     %     ASTM D3321     -35     -35     -35       Total Dissolved Solids     376.0     300.0     37.5     Carboxylate     1     1     pass     pass       CORROSION INHIBITORS     method     1mil/base     current     history1     history2       Silicon     ppm     ASTM D6130     0     2     0     0       Boron     ppm     ASTM D6130     0     2     0     0       Molyddenum     ppm     ASTM D6130     51     0     0     0       Copper     ppm     ASTM D6130     510     2     1     2       Copper     ppm     ASTM D6130     510     0     0     0       Iron	coolant.	Specific Gravity		*ASTM D1298		1.068	1.068	1.068
Ccceptable     The pH level of this fluid is within the cceptable limits.     Reserve Alkalinity     Sade 020     'ASTM D1121          Percentage Glycol     %     ASTM D321     50.3     50.4     50.2       Freezing Point     "F     ASTM D321     -35     -35     -35       Otal Dissoved Solids     Carboxylate     Imit base     current     history1     history2       Silicon     ppm     ASTM D6130     0     22     39     33       Phosphorus     ppm     ASTM D6130     0     2     0     0       Molybdenum     ppm     ASTM D6130     0     2     0     0       Molybdenum     ppm     ASTM D6130     950     856     1064     990       CORROSION     method     imit/base     current     history1     history2       Iron     ppm     ASTM D6130     >10     0     1     2       Copper     ppm     ASTM D6130     >10     0     1     1       Iron <t< td=""><th>Coolant Condition</th><th>рН</th><td>Scale 0-14</td><td>ASTM D1287</td><td></td><th>7.20</th><td>7.17</td><td>7.12</td></t<>	Coolant Condition	рН	Scale 0-14	ASTM D1287		7.20	7.17	7.12
Percentage Glycol%ASTM D332150.350.450.2Freezing Point°FASTM D3321-35-35-35Total Dissolved Solids376.0300.037.5CarboxylateIIIpasspassCORROSION INHIBITORSmethodImit/basecurrentNistory2SiliconppmASTM D61300223933PhosphorusppmASTM D6130023933BoronppmASTM D61300200MolybdenumppmASTM D61300200MolybdenumppmASTM D61309508561064990CORROSIONppmASTM D61309508561064990CopperppmASTM D61309508561064990CopperppmASTM D613010212CopperppmASTM D613010212CopperppmASTM D613010000TinppmASTM D61301001116172ChorineppmASTM D61301001116172ColorineppmASTM D6130502057123061PotassiumppmASTM D613011811618565ScALE POTENTI-LmethodImit/basecurrentNistory1Nistory2CalciumppmASTM D613010<	arboxylate test failed. The glycol level is	Nitrites	ppm	AP-053:2009		260	524	300
Freezing Point   %   ASTM D321   -35   -35     Freezing Point   %   ASTM D321   -35   -35     Total Dissolved Solids   376.0   300.0   37.5     Carboxylate   Imit/base   current   history1   history2     Silicon   ppm   ASTM D6130   0   22   39   33     Phosphorus   ppm   ASTM D6130   0   0   111   38     Boron   ppm   ASTM D6130   0   2   0   0     Molybdenum   ppm   ASTM D6130   0   2   0   0     Molybdenum   ppm   ASTM D6130   510   0   0   0     Iron   ppm   ASTM D6130   >10   2   1   2     Copper   ppm   ASTM D6130   >10   0   0   0     Irin   ppm   ASTM D6130   >10   0   1   1   41     Lead   ppm   ASTM D6130   >10   0   1   1   1     Contarin   ppm   ASTM D6130	cceptable. The pH level of this fluid is within the	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids376.0300.037.5CarboxylateIIIailpasspassCORROSION INHHBITORSmethodlimit/basscurrenthistory1history2SiliconppmASTM D61300223933PhosphorusppmASTM D613002200BoronppmASTM D61300200MolybdenumppmASTM D61309508561064990CORROSIONmethodimit/basscurrenthistory1history2IronppmASTM D6130>15000AuminumppmASTM D6130>10212CopperppmASTM D6130>10000TinppmASTM D6130>100<1	cceptable limits.	Percentage Glycol	%	ASTM D3321		50.3	50.4	50.2
CarboxylateImitfailpasspassCORROSION INHIBITORSmethodlimit/basecurrenthistory1history2SiliconppmASTM D61300223933PhosphorusppmASTM D61300200BoronppmASTM D61309508561064990CORROSIONmethodlimit/basecurrenthistory1history2MolybdenumppmASTM D61309508561064990CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>10212CopperppmASTM D6130>10214LeadppmASTM D6130>10000TinppmASTM D6130>100<1		Freezing Point	°F	ASTM D3321		-35	-35	-35
CORROSION INHIBITORS methodlimit/basecurrenthistory1history2SiliconppmASTM D61300223933PhosphorusppmASTM D6130001138BoronppmASTM D61300200MolybdenumppmASTM D61309508561064990CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>10212CopperppmASTM D6130>10212CopperppmASTM D6130>10000TinppmASTM D6130>10000TinppmASTM D6130>1002111ContraminumppmASTM D6130>100000TinppmASTM D6130>10022626CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorinepmASTM D613067111CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130502057123061PotassiumppmASTM D613011811618565SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D613010 <th></th> <th>Total Dissolved Solids</th> <td></td> <td></td> <td></td> <th>376.0</th> <td>300.0</td> <td>37.5</td>		Total Dissolved Solids				376.0	300.0	37.5
SiliconppmASTM D61300223933PhosphorusppmASTM D6130001138BoronppmASTM D61300200MolybdenumppmASTM D61309508561064990CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15000AluminumppmASTM D6130>10212CopperppmASTM D6130>10c11<1		Carboxylate				fail	pass	pass
Phosphorus   pm   ASTM D6130   0   0   11   38     Boron   pm   ASTM D6130   0   2   0   0     Molybdenum   pm   ASTM D6130   950   856   1064   990     CORROSION   method   limit/base   current   history1   history2     Iron   pm   ASTM D6130   >15   0   0   0     Aluminum   pm   ASTM D6130   >10   2   1   2     Copper   pm   ASTM D6130   >10   21   1   <1     Lead   pm   ASTM D6130   >10   <1   <1   0     Zinc   pm   ASTM D6130   >10   0   <1   0     Zinc   pm   ASTM D6130   >10   0   <1   0     Chlorine   pm   ASTM D6130   >10   0   11   15     Sodium   pm   ASTM D6130   <0   0   11   15     Sodium   pm   ASTM D6130   <0   5020   5712   3061 </th <th></th> <th>CORROSION INF</th> <th>IIBITORS</th> <th>s method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>		CORROSION INF	IIBITORS	s method	limit/base	current	history1	history2
Phosphorus   ppm   ASTM D6130   0   0   11   38     Boron   ppm   ASTM D6130   0   2   0   0     Molybdenum   ppm   ASTM D6130   950   856   1064   990     CORROSION   method   imit/base   current   history1   history2     Iron   ppm   ASTM D6130   >15   0   0   0     Aluminum   ppm   ASTM D6130   >10   2   1   2     Copper   ppm   ASTM D6130   >10   21   1   <1		Silicon	ppm	ASTM D6130	0	22	39	33
BoronppmASTM D61300200MolybdenumppmASTM D61309508561064990CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15000AluminumppmASTM D6130>10212CopperppmASTM D6130>10<1		Phosphorus		ASTM D6130	0	0	11	38
MolybdenumppmASTM D61309508561064990CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15000AluminumppmASTM D6130>10212CopperppmASTM D6130>10<1		Boron	ppm	ASTM D6130	0	2	0	
IronppmASTM D6130<>15000AluminumppmASTM D6130<>10212CopperppmASTM D6130<>10<1		Molybdenum	ppm	ASTM D6130	950	856	1064	990
AluminumppmASTM D6130>10212CopperppmASTM D6130>10<1		CORROSION		method	limit/base	current	history1	history2
CopperppmASTM D6130>10<1		Iron	ppm	ASTM D6130	>15	0	0	0
LeadppmASTM D6130>10000TinppmASTM D6130>100<1		Aluminum	ppm	ASTM D6130	>10	2	1	2
TinppmASTM D6130>100<10ZincppmASTM D6130C293226CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D6130C6711CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130502057123061PotassiumppmASTM D613011811618565SCALE POTENTIAmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130101610		Copper	ppm	ASTM D6130	>10	<1	1	<1
ZincppmASTM D6130293226CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D61306711CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130502057123061PotassiumppmASTM D613011811618565SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130101610		Lead	ppm	ASTM D6130	>10	0	0	0
CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D61306711CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130502057123061PotassiumppmASTM D613011811618565SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130101610		Tin	ppm	ASTM D6130	>10	0		0
ChlorineppmASTM D61306711CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130502057123061PotassiumppmASTM D613011811618565SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130101610		Zinc	ppm	ASTM D6130		29	32	26
CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130502057123061PotassiumppmASTM D613011811618565SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130101610		CONTAMINANTS	5	method	limit/base	current	history1	history2
SodiumppmASTM D6130502057123061PotassiumppmASTM D613011811618565SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130101610		Chlorine	ppm	ASTM D6130		6	7	11
PotassiumppmASTM D613011811618565SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130101610		CARRIER SALTS	6	method	limit/base	current	history1	history2
SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130101610		Sodium	ppm	ASTM D6130		5020	5712	3061
Calcium     ppm     ASTM D6130     10     16     10		Potassium	ppm	ASTM D6130		1181	1618	565
		SCALE POTENT	IAL	method	limit/base	current	history1	history2
		Calcium	ppm	ASTM D6130		10	16	10
		Magnesium	ppm	ASTM D6130		<1	<1	



## **COOLANT REPORT**



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

