## **COOLANT REPORT**

Sample Rating Trend



# Machine Id 68.23 [OKLAHOMA^109^EG - PAVING EQUIPMENT] Component Coolant Fluid

OKLAHOMA/109/EG - PAVING EQUIPMENT

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

n is recommended at this time.       Sample Date       Client Info       14 Sep 2023       07 Oct 2022       13 Sep 2021         Machine Age       hrs       Client Info       4700       4268       3643         e normal indicating no corrosion       Oil Age       hrs       Client Info       4700       4268       3643         oil Age       hrs       Client Info       4700       4268       3643       300       853         oil Age       hrs       Client Info       Not Changd       Statory       Stator		SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
e for further service.       Machine Age       hrs       Client Info       4700       4268       3643         Oil Age       hrs       Client Info       1000       3100       853       310         or normal indicating no corrosion       Oil Changed       Client Info       Not Changd       Astation       Station       Station <th>n</th> <th>Sample Number</th> <td></td> <td>Client Info</td> <td></td> <td>WC0848918</td> <td>WC0726162</td> <td>WC0598650</td>	n	Sample Number		Client Info		WC0848918	WC0726162	WC0598650
Machine Age         Ins         Client Info         If Vol         42.00         305-3           OI Age         Ins         Client Info         1000         3100         853           OI Changed         Client Info         Not Changd         Not Changd         Not Changd         Not Changd           sample Status         Imit Mode         Imit Mode         Imit Mode         Not Changd         Not Changd           iten of any contamination in the alled. The glycol level is         PHYSICAL TEST RESULTS         Molt D1287         8.23         8.15         8.12         4.8           Performation Contamination in the alled. The glycol level is         Nitrites         ppm         APM 053200         448         336         4.48           Reserve Alkalinity         Scate020         ASIM D1287         8.23         8.15         8.12         4.8           Freezing Point         *F         ASIM D0321         51.8         4.92.0         4.8         336         -33         7.31	on is recommended at this time. le for further service.	Sample Date		Client Info		14 Sep 2023	07 Oct 2022	13 Sep 2021
e normal indicating no corrosion m.  Oil Changed Sample Status Client Info Not Change No		Machine Age	hrs	Client Info		4700	4268	3643
em.       Sample Status       NORMAL       NORMAL       NORMAL       NORMAL         tion of any contamination in the nalid.       PHYSICAL TEST RESULTS       mather test test test test test test test te		Oil Age	hrs	Client Info		1000	3100	853
Sample Status         Normatic         Normatic         Normatic         Normatic           tion of any contamination in the alled. The glycol level is H level of this fluid is within the         PHYSICAL TEST RESULTS         mathod         Imil/base         current         history2           Specific Gravity         'ASTM D1287         8.23         8.15         8.12           Nitrites         ppm         AP-0532009         448         336         448           Reserve Alkalinity         Sae000         'XSTM D121              Per centage Glycol         % ASTM D3321         51.8         49.2         48           Freezing Point         "F         ASTM D6130         69         268         138           Total Dissolved Solids          482.0         406.0         429.0           Carboxylate          fail         pass         pass           Solidon         ppm         ASTM D6130         69         268         138           Boron         ppm         ASTM D6130         0         163         420         974           Molybdenum         ppm         ASTM D6130         15         1         0         1           CORROSION         ppm </td <td rowspan="2">e normal indicating no corrosion tem.</td> <th>Oil Changed</th> <td></td> <td>Client Info</td> <td></td> <td>Not Changd</td> <td>Not Changd</td> <td>Not Changd</td>	e normal indicating no corrosion tem.	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
in all of all y containination in the specific Gravity         'ASTM D128         1.069         1.067            pH         State 014         ASTM D1287         8.23         8.15         8.12           Nitrites         pm         AP-0532009         448         336         448           Beserve Alkalinity         State 020         'ASTM D1287              Percentage Glopol         ASTM D3321         5.18         49.2         488		Sample Status				NORMAL	NORMAL	NORMAL
Nome aliade. The glycol level is H level of this fluid is within theSpecific Gravity PHYASTM D12871.0691.067 .Nitrites Reserve AlkalinitySca@04ASTM D12876.3.236.156.12Nitrites Percentage Glycol%ASTM D33216.3.3Percentage Glycol%ASTM D3321Percentage Glycol%ASTM D3321	tion of any contamination in the	PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Alled. The glycol level is H level of this fluid is within the       Nitrites       ppm       AP-053:2009       448       336       448         Reserve Alkalinity       Scale 0.20       'ASTM D1121            Percentage Glycol       %       ASTM D3321       51.8       49.2       48         Total Dissolved Solids        ASTM D3321       51.8       49.2       48         Carboxylate       Imit base       462.0       406.0       429.0          Carboxylate       Imit base       current       history1       history2         Silicon       ppm       ASTM D6130       0       81       115       160         Phosphorus       ppm       ASTM D6130       0       69       268       133         Boron       ppm       ASTM D6130       0       69       268       133         Molybdenum       ppm       ASTM D6130       0       63       927       549         CORROSION       method       imit/base       current       history1       history2         Iron       ppm       ASTM D6130       >10       <1		Specific Gravity		*ASTM D1298		1.069	1.067	
Hevel of this fluid is within the       Reserve Alkalinity       Sade 020       'ASTM D1121            Percentage Gilycol       %       ASTM D3321       51.8       49.2       48         Freezing Point       °F       ASTM D3321       51.8       49.2       48         Freezing Point       °F       ASTM D3321       -33       -33       -33         Total Dissolved Solids       482.0       406.0       429.0         Carboxylate       Imit/base       current       historyl       historyl         Silicon       ppm       ASTM D6130       0       69       268       138         Boron       ppm       ASTM D6130       0       69       268       138         Boron       ppm       ASTM D6130       0       69       268       138         Molybdenum       ppm       ASTM D6130       163       420       974         Molybdenum       ppm       ASTM D6130       >10       1       1       1         Iron       ppm       ASTM D6130       >10       <1	on	рН	Scale 0-14	ASTM D1287		8.23	8.15	8.12
Percentage Glycol%ASTM D32151.849.248Freezing Point°FASTM D321-38-33-33Total Dissolved Solids482.0406.0429.0CarboxylateImit/basefailpasspassCORROSION INHIBITORSmethodlimit/basecurrenthistory1SiliconppmASTM D6130081115160PhosphorusppmASTM D6130069268138BoronppmASTM D61300163420974MolybdenumppmASTM D6130550590927549CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<1	ailed. The glycol level is H level of this fluid is within the	Nitrites	ppm	AP-053:2009		448	336	448
Freezing Point       °F       ASTM D3321       -38       -33       -33         Total Dissolved Solids       482.0       406.0       429.0         Carboxylate       Image: Solids       1ail       pass       pass         CORROSION INHIBITORS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D6130       0       81       115       160         Phosphorus       ppm       ASTM D6130       0       69       268       138         Boron       ppm       ASTM D6130       0       163       420       974         Molybdenum       ppm       ASTM D6130       950       590       927       549         CORROSION       method       limit/base       current       history1       history2         Iron       ppm       ASTM D6130<>15       <1		Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids       482.0       406.0       429.0         Carboxylate       i       fail       pass       pass         CORROSION INHIBITORS       method       limit/base       current       history1       history2         Silicon       ppm       ASTM D6130       0       81       115       160         Phosphorus       ppm       ASTM D6130       0       69       268       138         Boron       ppm       ASTM D6130       0       163       420       974         Molybdenum       ppm       ASTM D6130       0       163       420       974         Molybdenum       ppm       ASTM D6130       950       590       927       549         CORROSION       method       limit/base       current       history1       history2         Iron       ppm       ASTM D6130       >10       <1		Percentage Glycol	%	ASTM D3321		51.8	49.2	48
CarboxylatefailpasspassCORROSION INHIBITORSmethodlimit/basecurrenthistory1history2SiliconppmASTM D6130081115160PhosphorusppmASTM D6130069268138BoronppmASTM D61300163420974MolybdenumppmASTM D6130950590927549CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<1		Freezing Point	°F	ASTM D3321		-38	-33	-33
CORROSION INHIBITORSmethodlimit/basecurrenthistory1history2SiliconppmASTM D6130081115160PhosphorusppmASTM D6130069268138BoronppmASTM D61300163420974MolybdenumppmASTM D6130950590927549CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<1		-				482.0	406.0	429.0
Silicon       ppm       ASTM D6130       0       81       115       160         Phosphorus       ppm       ASTM D6130       0       69       268       138         Boron       ppm       ASTM D6130       0       163       420       974         Molybdenum       ppm       ASTM D6130       950       590       927       549         CORROSION       method       limit/base       current       history1       history2         Iron       ppm       ASTM D6130       >15       <1		Carboxylate				fail	pass	pass
Phosphorus       ppm       ASTM D6130       0       69       268       138         Boron       ppm       ASTM D6130       0       163       420       974         Molybdenum       ppm       ASTM D6130       950       590       927       549         CORROSION       method       imit/base       current       history1       history2         Iron       ppm       ASTM D6130       >15       <1       0       1         Aluminum       ppm       ASTM D6130       >15       <1       0       1         Aluminum       ppm       ASTM D6130       >10       <1       <1       <1       <1         Lead       ppm       ASTM D6130       >10       <1       0       0       0         Zinc       ppm       ASTM D6130       >10       0       0       <1       22         CONTAMINANTS       method       imit/base       current       history1       history2         Chlorine       ppm       ASTM D6130       5521       5000       3300         Quitter       ppm       ASTM D6130       5521       5000       3300         Potassium       ppm       ASTM D6130       <		CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron       ppm       ASTM D6130       0       163       420       974         Molybdenum       ppm       ASTM D6130       950       590       927       549         CORROSION       method       limit/base       current       history1       history2         Iron       ppm       ASTM D6130       >15       <1       0       1         Aluminum       ppm       ASTM D6130       >10       <1       0       0         Copper       ppm       ASTM D6130       >10       <1       <1       <1       <1         Lead       ppm       ASTM D6130       >10       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1       <1 <t< td=""><th>Silicon</th><td>ppm</td><td>ASTM D6130</td><td>0</td><td>81</td><td>115</td><td>160</td></t<>		Silicon	ppm	ASTM D6130	0	81	115	160
MolybdenumppmASTM D6130950590927549CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<1		Phosphorus	ppm	ASTM D6130	0	69	268	138
CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<1		Boron	ppm	ASTM D6130	0	163	420	974
Iron       ppm       ASTM D6130<>15       <1		Molybdenum	ppm	ASTM D6130	950	590	927	549
AluminumppmASTM D6130>10<100CopperppmASTM D6130>10<1		CORROSION		method	limit/base	current	history1	history2
CopperppmASTM D6130>10<1<1<1<1LeadppmASTM D6130>1000000TinppmASTM D6130>100000000ZincppmASTM D6130>1000<1		Iron	ppm	ASTM D6130	>15	<1	0	1
LeadppmASTM D6130>10000TinppmASTM D6130>10000ZincppmASTM D613000<1		Aluminum	ppm	ASTM D6130	>10	<1	0	0
TinppmASTM D6130>10000ZincppmASTM D6130Imit/baseCurrenthistory1history2CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613071022CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130552150003300PotassiumppmASTM D613049231159464SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130124		Copper	ppm	ASTM D6130	>10	<1	<1	<1
TinppmASTM D6130>10000ZincppmASTM D6130Imit/baseCurrenthistory1history2CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613071022CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130552150003300PotassiumppmASTM D613049231159464SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130124		Lead	ppm	ASTM D6130	>10	0	0	0
ZincppmASTM D61300<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613071022CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130552150003300PotassiumppmASTM D613049231159464SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130124		Tin				0	0	0
ChlorineppmASTM D613071022CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130552150003300PotassiumppmASTM D613049231159464SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130124		Zinc	ppm	ASTM D6130		0	0	<1
CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130552150003300PotassiumppmASTM D613049231159464SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130124		CONTAMINANTS	\$	method	limit/base	current	history1	history2
SodiumppmASTM D6130552150003300PotassiumppmASTM D613049231159464SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130124		Chlorine	ppm	ASTM D6130		7	10	22
PotassiumppmASTM D613049231159464SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130124		CARRIER SALTS	;	method	limit/base	current	history1	history2
PotassiumppmASTM D613049231159464SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130124		Sodium	ppm	ASTM D6130		5521	5000	3300
Calcium         ppm         ASTM D6130         1         2         4		Potassium		ASTM D6130			1159	464
		SCALE POTENT	IAL	method	limit/base	current	history1	history2
		Calcium	ppm	ASTM D6130		1	2	4
		Magnesium	ppm	ASTM D6130		3	<1	<1

### Recommendation

No corrective action The fluid is suitable

### Corrosion

All metal levels are in the cooling syste

#### Contaminants

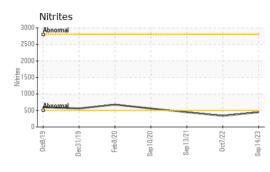
There is no indication coolant.

#### **Coolant Condition**

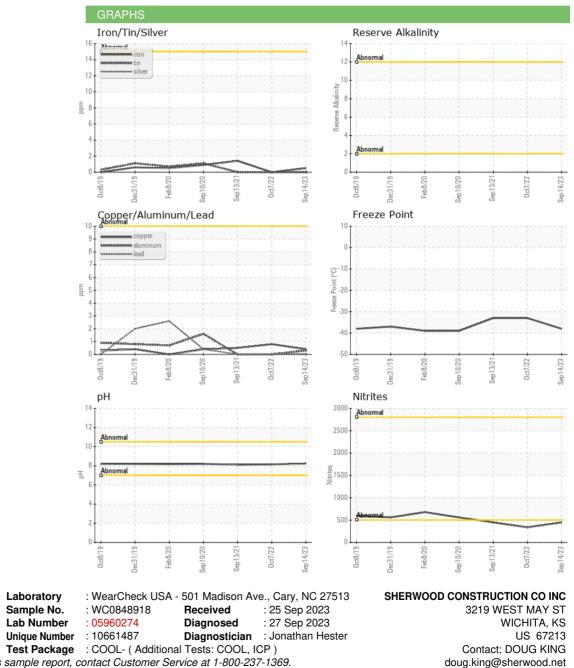
Carboxylate test fai acceptable. The pH acceptable limits.



### **COOLANT REPORT**



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





 Certificate 12367
 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)

Page 2 of 2

F: x:

T: (316)617-3161