

# **COOLANT REPORT**

# Sample Rating Trend

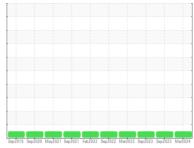




KANSAS/44/EG - LOADER
Machine Id
45.44L [KANSAS^44^EG - LOADER]
Component

Coolant

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





#### DIAGNOSIS

## Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service.

#### Corrosion

All metal levels are normal indicating no corrosion in the cooling system.

## **Contaminants**

There is no indication of any contamination in the coolant.

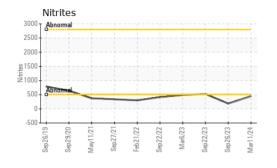
## **Coolant Condition**

Carboxylate test failed. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.

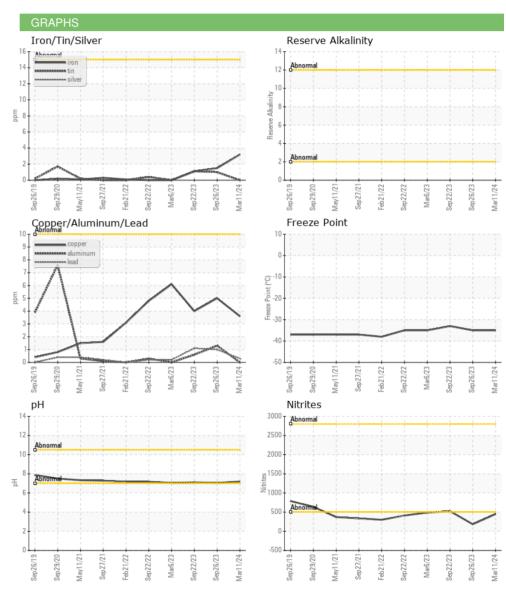
SAMPLE INFORMATION         method         limit/base         current         history1         history2           Sample Number         Client Info         WC0901310         WC0833847         WC07781181           Sample Date         Client Info         4098         3851         3443           Oil Age         hrs         Client Info         4098         3564         0           Oil Changed         Client Info         Changed         Not Changd         Not Changd         Not Changd           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL         NORMAL           PHYSICAL TEST RESULTS         method         limit/base         current         history1         history2           Glycol Type         FT-IR               Specific Gravity         YaSTM D1287         7.19         7.05         7.10           Nitrites         ppm         AP-0532009         448         184         524           Reserve Alkalinity         Sale 0:2         YaSTM D1128              Freezing Point         °F         ASTM D3321               Freezing Point	` , `	,	Sep2019 Sep2	020 May2021 Sep2021 Feb20	022 Sep2022 Mar2023 Sep2023 Sep	2023 Mar2024	
Sample Date   Client Info   11 Mar 2024   26 Sep 2023   22 Sep 2023   Machine Age   hrs   Client Info   4098   3851   3443   3443   Oil Age   hrs   Client Info   4098   38564   Oil Changed   Not Changed   Not Changed   Not Changed   NoRMAL   PHYSICAL TEST RESULTS   method   limit/base   current   history1   history2   history2   history2   history2   history2   history2   history3   1.068   1.068   1.067   7.10   history3   1.068   1.068   1.067   7.10   history3   history4   history5   history4   history5   history6   history6   history6   history6   history6   history7   history7   history7   history7   history8   history8   history8   history9	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         4098         3851         3443           Oil Age         hrs         Client Info         4098         3564         0           Oil Changed         Client Info         Changed         Not Changd         10         10         10         10         10         10         10         10         10         10	Sample Number		Client Info		WC0901310	WC0833847	WC0781181
Oil Age         hrs         Client Info         4098         3564         0           Oil Changed         Client Info         Changed         Not Changd         Not Changd           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           PHYSICAL TEST RESULTS         method         Imitifues         current         history1         history2           Glycol Type         FT-IR               Specific Gravity         4x8TM D1287         7.19         7.05         7.10           Nitrites         ppm         AP-053:2009         448         184         524           Reserve Alkalinity         \$cale 0:20         "ASTM D1121              Percentage Glycol         %         ASTM D3321         50.2         50.2         49.7           Freezing Point         °F         ASTM D3321         -35         -35         -33           Total Dissolved Solids         TS         340.0         381.0         381.5           Carboxylate         Femethod         Imiti/base         current         history1         history2           Silicon         ppm         ASTM D6130         0	Sample Date		Client Info		11 Mar 2024	26 Sep 2023	22 Sep 2023
Oil Changed Sample Status         Client Info         Changed NORMAL         Not Changd NORMAL         Not Changd NORMAL           PHYSICAL TEST RESULTS         method         limit/base         current         history1         history2           Glycol Type         FT-IR              Specific Gravity         'ASTM D1298         1.068         1.068         1.067           PH         Scale 0-14         ASTM D1287         7.19         7.05         7.10           Nitrites         ppm         AP-053:2009         448         1.84         524           Reserve Alkalinity         Scale 0-20         'ASTM D1121              Percentage Glycol         %         ASTM D3321         50.2         50.2         49.7           Freezing Point         °F         ASTM D3321         -35         -35         -33           Total Dissolved Solids         Tail         fail         fail         fail           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         35         59         39           Boron         ppm <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>4098</th> <th>3851</th> <th>3443</th>	Machine Age	hrs	Client Info		4098	3851	3443
Sample Status	Oil Age	hrs	Client Info		4098	3564	0
PHYSICAL TEST RESULTS   method   limit/base   current   history1   history2	Oil Changed		Client Info		Changed	Not Changd	Not Changd
Silicon   Spm   ASTM D6130   STM D6130	Sample Status				NORMAL	NORMAL	NORMAL
Specific Gravity	PHYSICAL TEST R	RESULTS	method	limit/base	current	history1	history2
PH	Glycol Type		FT-IR				
PH	Specific Gravity		*ASTM D1298		1.068	1.068	1.067
Nitrites		Scale 0-14	ASTM D1287		7.19	7.05	7.10
Percentage Glycol   %		ppm	AP-053:2009		448	184	524
Percentage Glycol   %	Reserve Alkalinity		*ASTM D1121				
Freezing Point	•	%	ASTM D3321		50.2	50.2	49.7
Carboxylate         fail         fail         fail         fail           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         22         26         25           Phosphorus         ppm         ASTM D6130         0         35         59         39           Boron         ppm         ASTM D6130         0         0         10         11           Molybdenum         ppm         ASTM D6130         950         553         630         496           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         3         2         1           Aluminum         ppm         ASTM D6130         >10         0         1         <1           Copper         ppm         ASTM D6130         >10         4         5         4           Lead         ppm         ASTM D6130         >10         0         1         1           Zinc         ppm         ASTM D6130         0         2         <1           CON		°F	ASTM D3321		-35	-35	-33
CORROSION INHIBITORS   method   limit/base   current   history1   history2	Total Dissolved Solids				340.0	381.0	381.5
Silicon         ppm         ASTM D6130         0         22         26         25           Phosphorus         ppm         ASTM D6130         0         35         59         39           Boron         ppm         ASTM D6130         0         0         10         11           Molybdenum         ppm         ASTM D6130         950         553         630         496           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         3         2         1           Aluminum         ppm         ASTM D6130         >10         0         1         <1           Copper         ppm         ASTM D6130         >10         4         5         4           Lead         ppm         ASTM D6130         >10         0         1         1           Zinc         ppm         ASTM D6130         >10         0         1         1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         3551         4141         3319 <th>Carboxylate</th> <th></th> <th></th> <th></th> <th>fail</th> <th>fail</th> <th>fail</th>	Carboxylate				fail	fail	fail
Phosphorus         ppm         ASTM D6130         0         35         59         39           Boron         ppm         ASTM D6130         0         0         10         11           Molybdenum         ppm         ASTM D6130         950         553         630         496           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         3         2         1           Aluminum         ppm         ASTM D6130         >10         0         1         <1           Copper         ppm         ASTM D6130         >10         4         5         4           Lead         ppm         ASTM D6130         >10         <1         1         1           Tin         ppm         ASTM D6130         >10         0         1         1         1           Zinc         ppm         ASTM D6130         0         2         <1         1           CONTAMINANTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3551         4141	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron         ppm         ASTM D6130         0         0         10         11           Molybdenum         ppm         ASTM D6130         950         553         630         496           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         3         2         1           Aluminum         ppm         ASTM D6130         >10         0         1         <1	Silicon	ppm	ASTM D6130	0	22	26	25
Molybdenum         ppm         ASTM D6130         950         553         630         496           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         3         2         1           Aluminum         ppm         ASTM D6130         >10         0         1         <1	Phosphorus	ppm	ASTM D6130	0	35	59	39
CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         3         2         1           Aluminum         ppm         ASTM D6130         >10         0         1         <1	Boron	ppm	ASTM D6130	0	0	10	11
Iron         ppm         ASTM D6130         >15         3         2         1           Aluminum         ppm         ASTM D6130         >10         0         1         <1           Copper         ppm         ASTM D6130         >10         4         5         4           Lead         ppm         ASTM D6130         >10         <1         1         1           Tin         ppm         ASTM D6130         >10         0         1         1           Zinc         ppm         ASTM D6130         0         2         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         8         16         15           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3551         4141         3319           Potassium         ppm         ASTM D6130         852         791         594           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium	Molybdenum	ppm	ASTM D6130	950	553	630	496
Aluminum         ppm         ASTM D6130         >10         0         1         <1	CORROSION		method	limit/base	current	history1	history2
Copper         ppm         ASTM D6130 > 10         4         5         4           Lead         ppm         ASTM D6130 > 10         <1	Iron	ppm	ASTM D6130	>15	3	2	1
Lead         ppm         ASTM D6130         >10         <1         1         1           Tin         ppm         ASTM D6130         >10         0         1         1           Zinc         ppm         ASTM D6130         0         2         <1	Aluminum	ppm	ASTM D6130	>10	0	1	<1
Tin         ppm         ASTM D6130         >10         0         1         1           Zinc         ppm         ASTM D6130         0         2         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         8         16         15           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3551         4141         3319           Potassium         ppm         ASTM D6130         852         791         594           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         0         1         2	Copper	ppm	ASTM D6130	>10	4	5	4
Zinc         ppm         ASTM D6130         0         2         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         8         16         15           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3551         4141         3319           Potassium         ppm         ASTM D6130         852         791         594           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         0         1         2	Lead	ppm	ASTM D6130	>10	<1	1	1
CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         8         16         15           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3551         4141         3319           Potassium         ppm         ASTM D6130         852         791         594           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         0         1         2	Tin	ppm	ASTM D6130	>10	0	1	1
Chlorine         ppm         ASTM D6130         8         16         15           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3551         4141         3319           Potassium         ppm         ASTM D6130         852         791         594           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         0         1         2	Zinc	ppm	ASTM D6130		0	2	<1
CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3551         4141         3319           Potassium         ppm         ASTM D6130         852         791         594           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         0         1         2	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium         ppm         ASTM D6130         3551         4141         3319           Potassium         ppm         ASTM D6130         852         791         594           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         0         1         2	Chlorine	ppm	ASTM D6130		8	16	15
Potassium         ppm         ASTM D6130         852         791         594           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         0         1         2	CARRIER SALTS		method	limit/base	current	history1	history2
SCALE POTENTIAL method limit/base current history1 history2  Calcium ppm ASTM D6130 0 1 2	Sodium	ppm	ASTM D6130		3551	4141	3319
Calcium         ppm         ASTM D6130         0         1         2	Potassium		ASTM D6130		852	791	594
The state of the s	SCALE POTENTI	AL	method	limit/base	current	history1	history2
Magnesium ppm ASTM D6130 <b>0</b> 2 <1	Calcium	ppm	ASTM D6130		0	1	2
	Magnesium	ppm	ASTM D6130		0	2	<1



# **COOLANT REPORT**



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







Laboratory Sample No. Unique Number : 10936056

: WC0901310 Lab Number : 06121905

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Diagnosed

: 21 Mar 2024 : 21 Mar 2024 - Jonathan Hester Test Package : COOL- ( Additional Tests: BoilingPoint, COOL, GlycolType, ICP )

: 18 Mar 2024

SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213

Contact: DOUG KING doug.king@sherwood.net T: (316)617-3161

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)

F: x: