

# **COOLANT REPORT**

## Sample Rating Trend

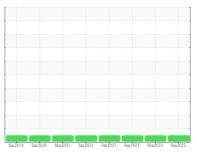




# KANSAS/44/EG - LOADER 45.44L [KANSAS^44^EG - LOADER]

Coolant

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





### 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.

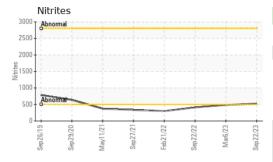
### **Coolant Condition**

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

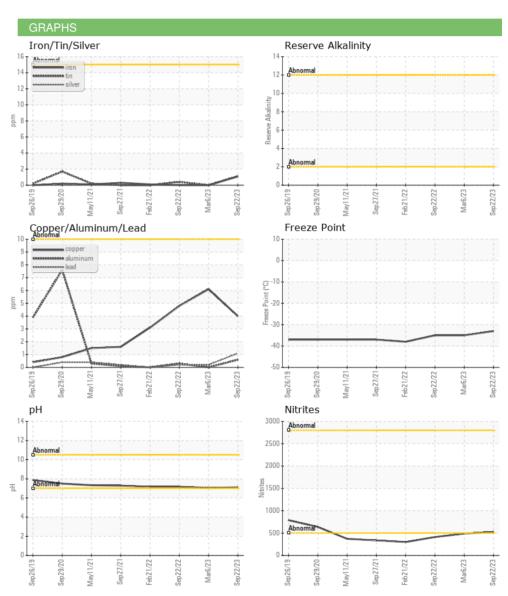
Sample Number	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         3443         3298         2654           Oil Age         hrs         Client Info         0         2654         22654           Oil Changed         Client Info         Not Changd	Sample Number		Client Info		WC0781181	WC0779837	WC0673631
Oil Age         hrs         Client Info         Not Changd Not Changd Not Changd NOT Changd NOT Changd NORMAL         Not Changd NORMAL NORMAL         Not Changd NORMAL NORMAL         Not Changd NORMAL NORMAL         Not Changd NORMAL         Not Changd NORMAL NoRMAL         10.0         0.1         Not Changd NoRMAL	Sample Date		Client Info		22 Sep 2023	06 Mar 2023	22 Sep 2022
Oil Changed Sample Status         Client Info         Not Changd NORMAL	Machine Age	hrs	Client Info		3443	3298	2654
Sample Status	Oil Age	hrs	Client Info		0	2654	2654
PHYSICAL TEST RESULTS   method   limit/base   current   history1   history2	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Specific Gravity	Sample Status				NORMAL	NORMAL	NORMAL
pH         Scale 0-14         ASTM D1287         7.10         7.05         7.17           Nitrites         ppm         AP-053-2009         524         488         412           Reserve Alkalinity         Scale 0-20         "ASTM D1121              Percentage Glycol         %         ASTM D3321         49.7         50.0         50.1           Freezing Point         °F         ASTM D3321         -33         -35         -35           Total Dissolved Solids         381.5         364.5         348.5         348.5           Carboxylate         fail         pass         pass           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         25         70         65           Phosphorus         ppm         ASTM D6130         0         11         0         <1           Boron         ppm         ASTM D6130         0         11         0         <1           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130	PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Nitrites	Specific Gravity		*ASTM D1298		1.067	1.067	1.068
Reserve Alkalinity	pН	Scale 0-14	ASTM D1287		7.10	7.05	7.17
Percentage Glycol   %   ASTM D3321   49.7   50.0   50.1	Nitrites	ppm	AP-053:2009		524	488	412
Freezing Point         °F         ASTM D3321         -33         -35         -35           Total Dissolved Solids         381.5         364.5         348.5           Carboxylate         fail         pass         pass           CORROSION INHIBITORS method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         25         70         65           Phosphorus         ppm         ASTM D6130         0         39         123         101           Boron         ppm         ASTM D6130         0         11         0         <1           Molybdenum         ppm         ASTM D6130         950         496         1146         1157           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1         0         0           Aluminum         ppm         ASTM D6130         >10         4         6         5           Lead         ppm         ASTM D6130         >10         1         <1         <1           Zinc         ppm <th>Reserve Alkalinity</th> <th>Scale 0-20</th> <th>*ASTM D1121</th> <th></th> <th></th> <th></th> <th></th>	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids         381.5         364.5         348.5           Carboxylate         fail         pass         pass           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         25         70         65           Phosphorus         ppm         ASTM D6130         0         39         123         101           Boron         ppm         ASTM D6130         0         11         0         <1           Molybdenum         ppm         ASTM D6130         950         496         1146         1157           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1         0         0           Aluminum         ppm         ASTM D6130         >10         <1         0         <1           Copper         ppm         ASTM D6130         >10         1         <1         <1           Lead         ppm         ASTM D6130         >10         1         <1         <1           Cinc         ppm	Percentage Glycol	%	ASTM D3321		49.7	50.0	50.1
Carboxylate         fail         pass         pass           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         25         70         65           Phosphorus         ppm         ASTM D6130         0         39         123         101           Boron         ppm         ASTM D6130         0         11         0         <1           Molybdenum         ppm         ASTM D6130         950         496         1146         1157           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1         0         0           Aluminum         ppm         ASTM D6130         >10         <1         0         <1           Copper         ppm         ASTM D6130         >10         1         <1         <1           Lead         ppm         ASTM D6130         >10         1         <1         <1           Zinc         ppm         ASTM D6130         >1         1         <1         <1	Freezing Point	°F	ASTM D3321		-33	-35	-35
CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         25         70         65           Phosphorus         ppm         ASTM D6130         0         39         123         101           Boron         ppm         ASTM D6130         0         11         0         <1           Molybdenum         ppm         ASTM D6130         950         496         1146         1157           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1         0         0           Aluminum         ppm         ASTM D6130         >10         <1         0         <1           Copper         ppm         ASTM D6130         >10         4         6         5           Lead         ppm         ASTM D6130         >10         1         <1         <1           Zinc         ppm         ASTM D6130         >10         1         <1         <1           CONTAMINANTS         method         limit/base         current         his	Total Dissolved Solids				381.5	364.5	348.5
Silicon	Carboxylate				fail	pass	pass
Phosphorus         ppm         ASTM D6130         0         39         123         101           Boron         ppm         ASTM D6130         0         11         0         <1           Molybdenum         ppm         ASTM D6130         950         496         1146         1157           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1         0         0           Aluminum         ppm         ASTM D6130         >10         <1         0         <1           Copper         ppm         ASTM D6130         >10         4         6         5           Lead         ppm         ASTM D6130         >10         1         <1         <1           Tin         ppm         ASTM D6130         >10         1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         3319         6288         3491           Potassium         ppm         ASTM D6130         594         2324	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron         ppm         ASTM D6130         0         11         0         <1           Molybdenum         ppm         ASTM D6130         950         496         1146         1157           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1         0         0           Aluminum         ppm         ASTM D6130         >10         <1	Silicon	ppm	ASTM D6130	0	25	70	65
Molybdenum         ppm         ASTM D6130         950         496         1146         1157           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1         0         0           Aluminum         ppm         ASTM D6130         >10         <1         0         <1           Copper         ppm         ASTM D6130         >10         4         6         5           Lead         ppm         ASTM D6130         >10         1         <1         <1           Tin         ppm         ASTM D6130         >10         1         0         <1           Zinc         ppm         ASTM D6130         <1         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         3319         6288         3491           Potassium         ppm         ASTM D6130         594         2324         783           SCALE POTENTIAL         method         limit/base         current         history1         history2	Phosphorus	ppm	ASTM D6130	0	39	123	101
CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         1         0         0           Aluminum         ppm         ASTM D6130         >10         <1         0         <1           Copper         ppm         ASTM D6130         >10         4         6         5           Lead         ppm         ASTM D6130         >10         1         <1         <1           Tin         ppm         ASTM D6130         >10         1         0         <1         <1           Zinc         ppm         ASTM D6130         >10         1         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         15         33         18           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         594         2324         783           SCALE POTENTIAL         method         limit/base         current         history1 <th>Boron</th> <th>ppm</th> <th>ASTM D6130</th> <th>0</th> <th>11</th> <th>0</th> <th>&lt;1</th>	Boron	ppm	ASTM D6130	0	11	0	<1
Iron         ppm         ASTM D6130         >15         1         0         0           Aluminum         ppm         ASTM D6130         >10         <1	Molybdenum	ppm	ASTM D6130	950	496	1146	1157
Aluminum         ppm         ASTM D6130         >10         <1	CORROSION		method	limit/base	current	history1	history2
Copper         ppm         ASTM D6130         >10         4         6         5           Lead         ppm         ASTM D6130         >10         1         <1         <1           Tin         ppm         ASTM D6130         >10         1         0         <1           Zinc         ppm         ASTM D6130         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         15         33         18           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3319         6288         3491           Potassium         ppm         ASTM D6130         594         2324         783           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         <1         1	Iron	ppm	ASTM D6130	>15	1	0	0
Lead         ppm         ASTM D6130         >10         1         <1	Aluminum	ppm	ASTM D6130	>10	<1	0	<1
Tin         ppm         ASTM D6130 billion         >10         1         0         <1	Copper	ppm	ASTM D6130	>10	4	6	5
Zinc         ppm         ASTM D6130         <1	Lead	ppm	ASTM D6130	>10	1	<1	<1
CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         15         33         18           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3319         6288         3491           Potassium         ppm         ASTM D6130         594         2324         783           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         <1         1	Tin	ppm	ASTM D6130	>10	1	0	<1
Chlorine         ppm         ASTM D6130         15         33         18           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3319         6288         3491           Potassium         ppm         ASTM D6130         594         2324         783           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         <1         1	Zinc	ppm	ASTM D6130		<1	<1	<1
CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         3319         6288         3491           Potassium         ppm         ASTM D6130         594         2324         783           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         <1         1	CONTAMINANTS	;	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D6130         3319         6288         3491           Potassium         ppm         ASTM D6130         594         2324         783           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         <1	Chlorine	ppm	ASTM D6130		15	33	18
Potassium         ppm         ASTM D6130         594         2324         783           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         2         <1         1	CARRIER SALTS		method	limit/base	current	history1	history2
SCALE POTENTIAL method limit/base current history1 history2  Calcium ppm ASTM D6130 2 <1 1	Sodium	ppm	ASTM D6130		3319	6288	3491
Calcium         ppm         ASTM D6130         2         <1	Potassium	ppm	ASTM D6130		594	2324	783
	SCALE POTENTI	AL	method	limit/base	current	history1	history2
Magnesium         ppm         ASTM D6130         <1	Calcium	ppm	ASTM D6130		2	<1	1
	Magnesium	ppm	ASTM D6130		<1	0	<1



# **COOLANT REPORT**



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







Report Id: SHEWIC [WUSCAR] 05963897 (Generated: 10/04/2023 17:50:39) Rev: 1

Laboratory Sample No. Lab Number Unique Number : 10670448

: WC0781181 : 05963897

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Sep 2023

Diagnosed : 04 Oct 2023 Diagnostician : Jonathan Hester

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

\* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

SHERWOOD CONSTRUCTION CO INC

3219 WEST MAY ST WICHITA, KS US 67213 Contact: DOUG KING doug.king@sherwood.net

T: (316)617-3161 F: x: