

# **COOLANT REPORT**



OKLAHOMA/102/EG - EXCAVATOR 20.200L [OKLAHOMA^102^EG - EXCAVATOR] Component

Coolant

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



Sample Rating Trend



## 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.

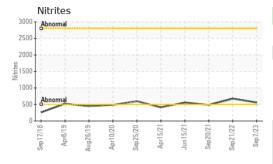
### **Coolant Condition**

Carboxylate test failed. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

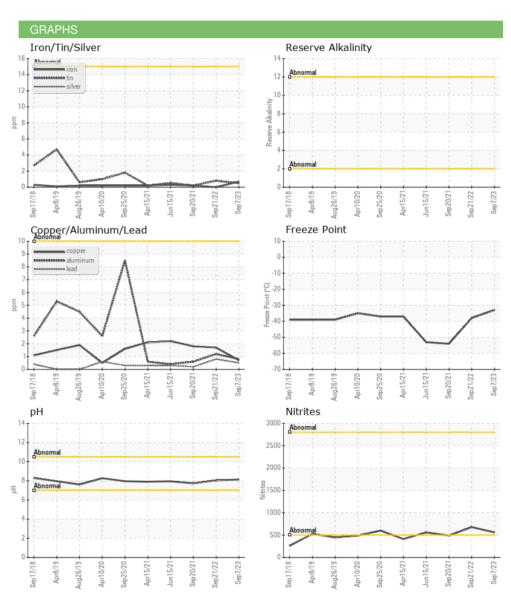
Sample Date	JOLANI (ELC) (	- GAL)	Sep2018 Apr2	019 Aug2019 Apr2020 Sep2	020 Apr2021 Jun2021 Sep2021 Sep	022 Sep2023	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         5243         4612         4167           Oil Age         hrs         Client Info         500         4612         3889           Oil Changed         Client Info         Not Changd         N/A         N/A           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           PHYSICAL TEST RESULTS         method         limit/base         current         history1         history2           Specific Gravity         *ASTM D1287         8.14         8.04         7.73         normal Status         1.069	Sample Number		Client Info		WC0848894	WC0741177	WC0603174
Oil Age         hrs         Client Info         500         4612         3889           Oil Changed         Client Info         Not Changd         N/A         N/A           Sample Status         NORMAL         NORMAL         NORMAL           PHYSICAL TEST RESULTS method         limit/base         current         history1         history2           Specific Gravity         "ASTM D1287"         8.14         8.04         7.73           Nitrites         ppm         AP-053:2009         560         676         488           Reserve Alkalinity         Sake 0:20" ASTM D1121               Percentage Glycol         %         ASTM D1321         -9.7         51.9         56           Freezing Point         "F         ASTM D3321         -9.7         51.9         56           Freezing Point         "F         ASTM D3321         -33         -38         -54           Total Dissolved Solids         333.5         376.0         424.0         0           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         17	Sample Date		Client Info		07 Sep 2023	21 Sep 2022	20 Sep 2021
Oil Changed   Client Info   Not Changed   N/A   N/A   NORMAL	Machine Age	hrs	Client Info		5243	4612	4167
NORMAL   NORMAL   NORMAL   NORMAL	Oil Age	hrs	Client Info		500	4612	3889
PHYSICAL TEST RESULTS   method   limit/base   current   history1   history2	Oil Changed		Client Info		Not Changd	N/A	N/A
Specific Gravity	Sample Status				NORMAL	NORMAL	NORMAL
pH         Scale 0-14   ASTM D1287         8.14   8.04   7.73           Nitrites         ppm         AP-053:2009   560   676   488           Reserve Alkalinity         Scale 0-20   "ASTM D1121	PHYSICAL TEST F	ESULTS	method	limit/base	current	history1	history2
Nitrites	Specific Gravity		*ASTM D1298		1.067	1.069	
Reserve Alkalinity	рН	Scale 0-14	ASTM D1287		8.14	8.04	7.73
Percentage Glycol         %         ASTM D3321         49.7         51.9         56           Freezing Point         °F         ASTM D3321         -33         -38         -54           Total Dissolved Solids         333.5         376.0         424.0           Carboxylate         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         17         23         19           Phosphorus         ppm         ASTM D6130         0         0         9         <1           Boron         ppm         ASTM D6130         0         9         17         <1           Molybdenum         ppm         ASTM D6130         950         995         1140         1064           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >10         <1         0         <1           COPROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >10         <1         1         <1         <1 <t< td=""><td>Nitrites</td><td>ppm</td><td>AP-053:2009</td><td></td><th>560</th><td>676</td><td>488</td></t<>	Nitrites	ppm	AP-053:2009		560	676	488
Preezing Point	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids   333.5   376.0   424.0	Percentage Glycol	%	ASTM D3321		49.7	51.9	56
Carboxylate         fail         pass         pass           CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         17         23         19           Phosphorus         ppm         ASTM D6130         0         9         -1           Boron         ppm         ASTM D6130         0         9         17         -1           Molybdenum         ppm         ASTM D6130         950         995         1140         1064           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1	Freezing Point	°F	ASTM D3321		-33	-38	-54
CORROSION INHIBITORS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D6130         0         17         23         19           Phosphorus         ppm         ASTM D6130         0         0         9         <1	Total Dissolved Solids				333.5	376.0	424.0
Silicon   ppm   ASTM D6130   0   17   23   19	Carboxylate				fail	pass	pass
Phosphorus         ppm         ASTM D6130         0         9         <1	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron	Silicon	ppm	ASTM D6130	0	17	23	19
Molybdenum         ppm         ASTM D6130         950         995         1140         1064           CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1	Phosphorus	ppm	ASTM D6130	0	0	9	<1
CORROSION         method         limit/base         current         history1         history2           Iron         ppm         ASTM D6130         >15         <1	Boron	ppm	ASTM D6130	0	9	17	<1
Iron         ppm         ASTM D6130         >15         <1         0         <1           Aluminum         ppm         ASTM D6130         >10         <1         1         <1           Copper         ppm         ASTM D6130         >10         <1         2         2           Lead         ppm         ASTM D6130         >10         <1         <1         <1           Tin         ppm         ASTM D6130         >10         <1         <1         <1           Zinc         ppm         ASTM D6130         <1         1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         17         0         26           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5508         5000         3459           Potassium         ppm         ASTM D6130         16         102         44           SCALE POTENTIAL         method         limit/base         current         history1         history2	Molybdenum	ppm	ASTM D6130	950	995	1140	1064
Aluminum         ppm         ASTM D6130         >10         <1         1         <1           Copper         ppm         ASTM D6130         >10         <1	CORROSION		method	limit/base	current	history1	history2
Copper         ppm         ASTM D6130         >10         <1         2         2           Lead         ppm         ASTM D6130         >10         <1         <1         <1           Tin         ppm         ASTM D6130         >10         <1         <1         <1           Zinc         ppm         ASTM D6130         <1         1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         17         0         26           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5508         5000         3459           Potassium         ppm         ASTM D6130         16         102         44           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         5         4         4	Iron	ppm	ASTM D6130	>15	<1	0	<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         <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	Aluminum	ppm	ASTM D6130	>10		1	<1
Tin         ppm         ASTM D6130         >10         <1         <1         <1           Zinc         ppm         ASTM D6130         >10         <1         <1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         17         0         26           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5508         5000         3459           Potassium         ppm         ASTM D6130         16         102         44           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         5         4         4	Copper	ppm	ASTM D6130	>10	<1	2	2
Zinc         ppm         ASTM D6130         <1         1         <1           CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         17         0         26           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5508         5000         3459           Potassium         ppm         ASTM D6130         16         102         44           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         5         4         4	Lead	ppm	ASTM D6130	>10	<1	<1	<1
CONTAMINANTS         method         limit/base         current         history1         history2           Chlorine         ppm         ASTM D6130         17         0         26           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5508         5000         3459           Potassium         ppm         ASTM D6130         16         102         44           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         5         4         4	Tin	ppm	ASTM D6130	>10	<1	<1	<1
Chlorine         ppm         ASTM D6130         17         0         26           CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5508         5000         3459           Potassium         ppm         ASTM D6130         16         102         44           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         5         4         4	Zinc	ppm	ASTM D6130		<1	1	<1
CARRIER SALTS         method         limit/base         current         history1         history2           Sodium         ppm         ASTM D6130         5508         5000         3459           Potassium         ppm         ASTM D6130         16         102         44           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         5         4         4	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium         ppm         ASTM D6130         5508         5000         3459           Potassium         ppm         ASTM D6130         16         102         44           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         5         4         4	Chlorine	ppm	ASTM D6130		17	0	26
Potassium         ppm         ASTM D6130         16         102         44           SCALE POTENTIAL         method         limit/base         current         history1         history2           Calcium         ppm         ASTM D6130         5         4         4	CARRIER SALTS		method	limit/base	current	history1	history2
SCALE POTENTIAL method limit/base current history1 history2  Calcium ppm ASTM D6130 5 4 4	Sodium	ppm	ASTM D6130		5508	5000	3459
Calcium         ppm         ASTM D6130         5         4         4	Potassium	ppm	ASTM D6130		16	102	44
11	SCALE POTENTI	AL	method	limit/base	current	history1	history2
Magnesium ppm ASTM D6130 <1 <1 <1	Calcium	ppm	ASTM D6130		5	4	4
	Magnesium	ppm	ASTM D6130		<1	<1	<1



## **COOLANT REPORT**











Laboratory Sample No.

Lab Number Unique Number

: 10660126

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0848894 : 05958913

Received Diagnosed

: 22 Sep 2023 : 26 Sep 2023

Diagnostician : Jonathan Hester

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)

SHERWOOD CONSTRUCTION CO INC

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