

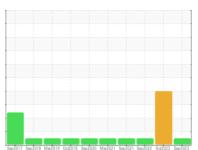
COOLANT REPORT



OKLAHOMA/102/EG - MOTOR GRADER 78.67 [OKLAHOMA^102^EG - MOTOR GRADER]

Coolant

EXTENDED LIFE COOLANT (--- GAL)



Sample Rating Trend



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.

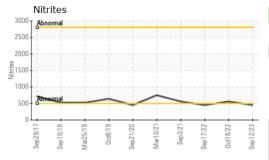
Coolant Condition

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

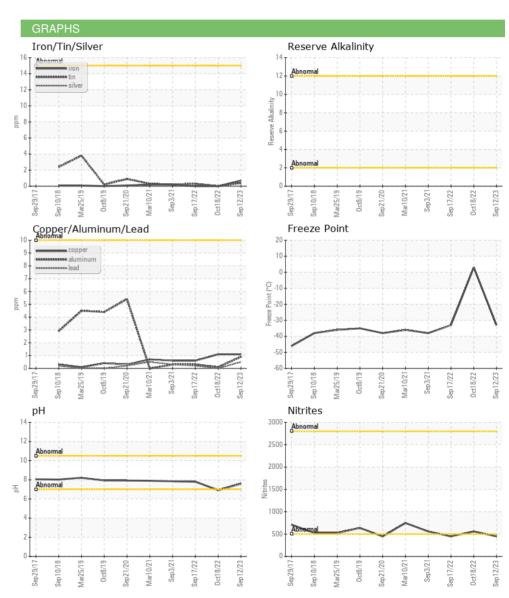
SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info WC0849021 WC0741251 WC0738452 Sample Date Client Info 12 Sep 2023 18 Oct 2022 17 Sep 2022 Machine Age hrs Client Info 600 15298 15207 Oil Age hrs Client Info N/A Not Changd N/A Oil Changed Client Info N/A Not Changd N/A Sample Status NORMAL ABNORMAL NORMAL PHYSICAL TEST RESULTS method limit/base current history1 history2 Specific Gravity "ASTM D1298 1.067 1.042 1.067 1.042 1.067 PH Scale 041 ASTM D1288 7.59 6.91 7.80 Nitrites A691 7.80 Nitrites A691 7.80 Nitrites A9.7 31.4 49.8 8.520 "ASTM D1321	LANT (GAL)		Sep2017 Sep2	018 Mar2019 Oct2019 Sep2	020 Mar2021 Sep2021 Sep2022 Oct	2022 Sep2023	
Sample Date Client Info 12 Sep 2023 18 Oct 2022 17 Sep 2022 Machine Age hrs Client Info 15780 15298 15207 Oil Age hrs Client Info 600 15298 15207 Oil Changed Client Info N/A Not Changd N/A Sample Status NORMAL ABNORMAL NORMAL PHYSICAL TEST RESULTS method limit/base current history1 history2 Specific Gravity "ASTM D1287 7.59 ♠ 6,91 7.80 Nitrites ppm AP-053:2009 448 560 448 Reserve Alkalinity Scale 0:20 "ASTM D1281 Percertatage Glycol % ASTM D3321 49.7 ▲ 31.4 49.8 Reserve Alkalinity Scale 0:20 "ASTM D3321 49.7 ▲ 31.4 49.8 Reserve Alkalinity Scale 0:20 "ASTM D3321 49.7 ▲ 31.4 49.8 Reserve Alkalinity Scale 0:20 <td< th=""><th>SAMPLE INFORM</th><th>MATION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 15780 15298 15207 Oil Age hrs Client Info 600 15298 15207 Oil Changed Client Info N/A Not Changd N/A Sample Status NORMAL NORMAL NORMAL NORMAL PHYSICAL TEST RESULTS method limit/base current history1 history2 Specific Gravity *ASTM D1287 7.59 6.91 7.80 Nitrites ppm AP-053:2009 448 560 448 Reserve Alkalinity \$ca80:20 ASTM D1221 Percentage Glycol % ASTM D3321 49.7 31.4 49.8 8 Freezing Point °F ASTM D3321 -33 3 -33 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101 101	Sample Number		Client Info		WC0849021	WC0741251	WC0738452
Oil Age hrs Client Info 600 15298 15207 Oil Changed Client Info N/A Not Changd N/A Sample Status NORMAL NORMAL NORMAL PHYSICAL TEST RESULTS method limit/base current history1 history2 Specific Gravity "ASTM D1287 7.59 ♣ 6.91 7.80 Nitrites ppm AP-053:2009 448 560 448 Reserve Alkalinity Sake 0:20 "ASTM D1121 Percentage Glycol % ASTM D1321 49.7 ♣ 31.4 49.8 Freezing Point °F ASTM D3321 49.7 ♣ 31.4 49.8 Freezing Point °F ASTM D3321 -33 3 -33 Total Dissolved Solids 355.5 248.5 319.5 Carboxylate fail fail fail fail Phosphorus ppm ASTM D6130 21 27 19	Sample Date		Client Info		12 Sep 2023	18 Oct 2022	17 Sep 2022
Oil Changed Sample Status Client Info N/A NoRMAL NoRMAL N/A NORMAL	Machine Age	hrs	Client Info		15780	15298	15207
NORMAL ABNORMAL NORMAL	Oil Age	hrs	Client Info		600	15298	15207
PHYSICAL TEST RESULTS method limit/base current history1 history2 Specific Gravity "ASTM D1298 1.067 1.042 1.067 pH \$cale 0-14 ASTM D1287 7.59 ♠ 6.91 7.80 Nitrites ppm AP-053:2009 448 560 448 Reserve Alkalinity Scale 0-20 "ASTM D1211 Percentage Glycol % ASTM D3321 49.7 ♠ 31.4 49.8 49.8 Freezing Point °F ASTM D3321 -33 3 -33 17.55 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 248.5 319.5 </td <td>Oil Changed</td> <td></td> <td>Client Info</td> <td></td> <th>N/A</th> <td>Not Changd</td> <td>N/A</td>	Oil Changed		Client Info		N/A	Not Changd	N/A
Specific Gravity	Sample Status				NORMAL	ABNORMAL	NORMAL
pH Scale 0-14 ASTM D1287 7.59 A 6.91 7.80 Nitrites ppm AP-053:2009 448 560 448 Reserve Alkalinity Scale 0-20 "ASTM D1121	PHYSICAL TEST F	ESULTS	method	limit/base	current	history1	history2
Nitrites	Specific Gravity		*ASTM D1298		1.067	1.042	1.067
Reserve Alkalinity Scale 0-20 "ASTM D1121"	рН	Scale 0-14	ASTM D1287		7.59	△ 6.91	7.80
Percentage Glycol % ASTM D3321 49.7 ▲ 31.4 49.8 Freezing Point °F ASTM D3321 -33 3 -33 Total Dissolved Solids 355.5 248.5 319.5 Carboxylate fail fail pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 21 27 19 Phosphorus ppm ASTM D6130 0 0 0 Boron ppm ASTM D6130 9 <1	Nitrites	ppm	AP-053:2009		448	560	448
Preezing Point	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids	Percentage Glycol	%	ASTM D3321		49.7	△ 31.4	49.8
Carboxylate fail fail pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 21 27 19 Phosphorus ppm ASTM D6130 0 0 0 Boron ppm ASTM D6130 9 <1	Freezing Point	°F	ASTM D3321		-33	3	-33
CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 21 27 19 Phosphorus ppm ASTM D6130 0 0 0 Boron ppm ASTM D6130 9 <1	Total Dissolved Solids				355.5	248.5	319.5
Silicon	Carboxylate				fail	fail	pass
Phosphorus ppm ASTM D6130 0 0 0 Boron ppm ASTM D6130 9 <1 1 Molybdenum ppm ASTM D6130 1022 676 1125 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1 0 0 Aluminum ppm ASTM D6130 >10 <1 <1 <1 Copper ppm ASTM D6130 >10 1 1 <1 <1 Lead ppm ASTM D6130 >10 <1 0 <1 <1 Tin ppm ASTM D6130 >10 <1 0 <1 <1 Zinc ppm ASTM D6130 <1 37 <1 <1 CONTAMINANTS method limit/base current history1 history2 Sodium ppm ASTM D6130 15 5636 4225 <th>CORROSION INH</th> <th>IBITORS</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Boron ppm ASTM D6130 ppm ASTM D6130 limit/base current history1 history2	Silicon	ppm	ASTM D6130		21	27	19
Molybdenum ppm ASTM D6130 1022 676 1125 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1	Phosphorus	ppm	ASTM D6130		0	0	0
CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 <1	Boron	ppm	ASTM D6130		9	<1	1
Iron ppm ASTM D6130 >15 <1 0 0 Aluminum ppm ASTM D6130 >10 <1 <1 <1 Copper ppm ASTM D6130 >10 1 1 <1 Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 <1 0 <1 Zinc ppm ASTM D6130 <1 37 <1 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 15 25 11 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5636 4225 3229 Potassium ppm ASTM D6130 17 378 43 SCALE POTENTIAL method limit/base current history1 history2 Calcium	Molybdenum	ppm	ASTM D6130		1022	676	1125
Aluminum ppm ASTM D6130 >10 <1 <1 <1 Copper ppm ASTM D6130 >10 1 1 <1	CORROSION		method	limit/base	current	history1	history2
Copper ppm ASTM D6130 >10 1 1 <1 Lead ppm ASTM D6130 >10 <1	Iron	ppm	ASTM D6130	>15	<1	0	0
Lead ppm ASTM D6130 >10 <1 0 <1 Tin ppm ASTM D6130 >10 <1	Aluminum	ppm	ASTM D6130	>10	<1	<1	<1
Tin ppm ASTM D6130 billion >10 contact <1 contact 0 contact <1 contact <td>Copper</td> <td>ppm</td> <td>ASTM D6130</td> <td>>10</td> <th>1</th> <td>1</td> <td><1</td>	Copper	ppm	ASTM D6130	>10	1	1	<1
Zinc ppm ASTM D6130 <1 37 <1 CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 15 25 11 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5636 4225 3229 Potassium ppm ASTM D6130 17 378 43 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 5 19 9	Lead	ppm	ASTM D6130	>10	<1	0	<1
CONTAMINANTS method limit/base current history1 history2 Chlorine ppm ASTM D6130 15 25 11 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5636 4225 3229 Potassium ppm ASTM D6130 17 378 43 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 5 19 9	Tin	ppm	ASTM D6130	>10	<1	0	<1
Chlorine ppm ASTM D6130 15 25 11 CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5636 4225 3229 Potassium ppm ASTM D6130 17 378 43 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 5 19 9	Zinc	ppm	ASTM D6130		<1	37	<1
CARRIER SALTS method limit/base current history1 history2 Sodium ppm ASTM D6130 5636 4225 3229 Potassium ppm ASTM D6130 17 378 43 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 5 19 9	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D6130 5636 4225 3229 Potassium ppm ASTM D6130 17 378 43 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 5 19 9	Chlorine	ppm	ASTM D6130		15	25	11
Potassium ppm ASTM D6130 17 378 43 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 5 19 9	CARRIER SALTS		method	limit/base	current	history1	history2
SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 5 19 9	Sodium	ppm	ASTM D6130		5636	4225	3229
Calcium ppm ASTM D6130 5 19 9	Potassium	ppm	ASTM D6130		17	378	43
11	SCALE POTENTI	AL	method	limit/base	current	history1	history2
Magnesium ppm ASTM D6130 2 8	Calcium	ppm	ASTM D6130		5	19	9
	Magnesium	ppm	ASTM D6130		2	8	2



COOLANT REPORT



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







Laboratory Sample No. Lab Number

Unique Number : 10660136

: WC0849021 : 05958923

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

Diagnosed

: 22 Sep 2023 : 26 Sep 2023 Diagnostician : Jonathan Hester

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

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)