

COOLANT REPORT

Sample Rating Trend





OKLAHOMA/102/EG - SKID STEER 53.137L [OKLAHOMA^102^EG - SKID STEER] Coolant

SAMPLE INFORMATION method

EXTENDED LIFE COOLANT (--- GAL)

DIAGNOSIS

Recommendation

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

Area

Corrosion

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

Contaminants

There is no indication of any contamination in the coolant.

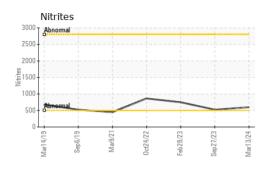
Coolant Condition

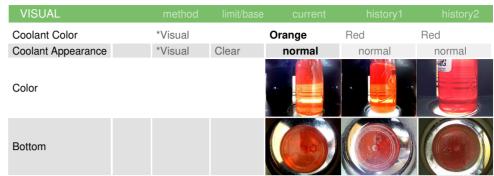
Carboxylate test failed. The pH level of this fluid is within the acceptable limits. Glycol and nitrite levels are acceptable.

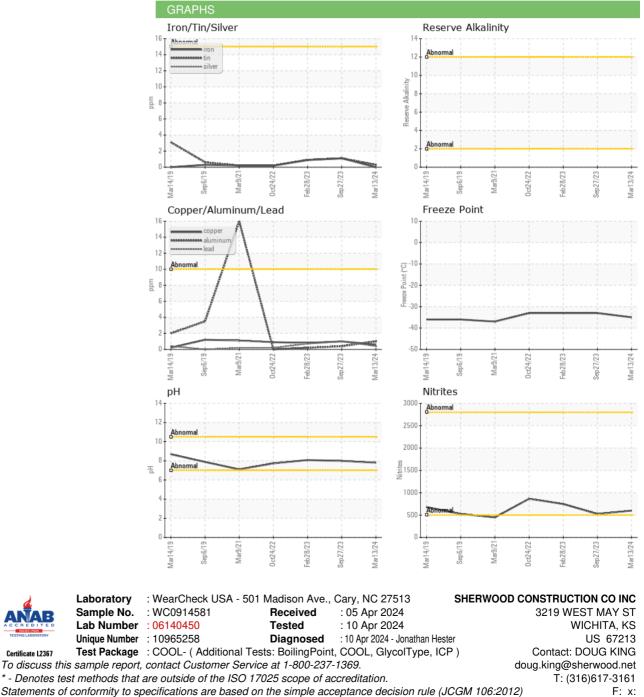
Sample Number Client Info WC0914581 WC0834101 WC0792511 Sample Date Client Info 13 Mar 2024 27 Sep 2023 28 Feb 2023 Machine Age hrs Client Info 6545 5651 4770 Oil Age hrs Client Info 6545 4770 3334 Oil Changed Client Info 6545 4770 334 Oil Changed Client Info Not Changd Not Changd Not Changd Sample Status Imit Nos Current History1 history2 Glycol Type FT-IR Specific Gravity YASIM D1287 7.80 7.99 8.08 Nitrites ppm AP.053:2009 600 524 748 Reserve Alkalinity Scie 0:4 ASTM D1287 -35 -33 -33 Total Dissolved Solids Freezing Point *F ASTM D1332 50.7 49.4 9.4						,	
Machine Age hrs Client Info 6545 5651 4770 Oil Age hrs Client Info Not Changd Not Changd Not Changd Sample Status Image Client Info Not Changd Not Changd Nor Changd PHYSICAL TEST RESULTS method imit/base current history1 NorRMAL Specific Gravity YASTM D128 1.066 1.067 1.067 pHYSICAL TEST RESULTS Math D1287 7.80 7.99 8.08 Nitrites ppm AP-053:2009 600 524 7.48 Reserve Alkalinity Sale0:21 ASTM D1231 Percentage Glycol % ASTM D3321 50.7 49.4 49.4 Freezing Point °F ASTM D3321 Carboxylate real ASTM D6130 600 347.5 325.0 Carboxylate ppm ASTM D6130 0 12 4 Phosphorus <	Sample Number		Client Info		WC0914581	WC0834101	WC0792531
Oil Age hrs Client Info 6545 4770 3334 Oil Changed Client Info Not Changd Not Changd Not Changd Sample Status Imit/base current history1 Not Changd PHYSICAL TEST RESULTS method imit/base current history1 Not Changd Glycol Type FT-IR Specific Gravity YaSTM D1287 7.80 1.068 1.067 1.067 pH Scale014 ASTM D1287 7.80 7.99 8.08 Nitrites ppm AP0632009 600 524 748 Reserve Alkalinity Scale020 'ASTM D3221 Percentage Glycol % ASTM D3221 -35 -33 -33 -33 Total Dissolved Solids 1mit/base current history1 history2 Silicon ppm ASTM D6130 4 2 0 Boron <td< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>13 Mar 2024</th><th>27 Sep 2023</th><th>28 Feb 2023</th></td<>	Sample Date		Client Info		13 Mar 2024	27 Sep 2023	28 Feb 2023
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Sample StatusImage: statusImage: statusNORMALNORMALNORMALNORMALPHYSICAL TEST RESULTSmethodlimit/basecurrenthistory1history2Glycol TypeFT-IRSpecific GravityYASTM D12881.0681.0671.067pHScale014ASTM D12877.807.998.08NitritesppmAP-0532009600524748Reserve AlkalinityScale029ASTM D1231Percentage Glycol%ASTM D332150.749.4449.4Freezing Point°FASTM D3321-35-33-33Total Dissolved SolidsfailfailpassCORROSION INHEITORSmethod10mit/basecurrenthistory1history2SiliconppmASTM D613081114PhosphorusppmASTM D61306825321058CORROSIONppmASTM D61301-1-1MolybdenumppmASTM D6130511-1PronppmASTM D6130101-1-1CopperppmASTM D613010-1-1-1LuminumppmASTM D613010-1-1-1LuminumppmASTM D613010-1-1-1LuminumppmASTM D613010-1-1-1Lu	Oil Age	hrs	Client Info		6545	4770	3334
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Reserve Alkalinity Sade 0-20 *ASTM D1121 Percentage Glycol % ASTM D3321 50.7 49.4 49.4 Freezing Point °F ASTM D3321 -35 -33 -33 Total Dissolved Solids 376.0 347.5 325.0 Carboxylate Freezing Point °F ASTM D6130 8 11 14 Phosphorus ppm ASTM D6130 8 11 14 Phosphorus ppm ASTM D6130 4 2 0 Boron ppm ASTM D6130 0 12 4 Molybdenum ppm ASTM D6130 0 12 4 Molybdenum ppm ASTM D6130 0 12 4 Molybdenum ppm ASTM D6130 1 <1 1 Iron ppm ASTM D6130 >10 1 <1 1 Lead ppm ASTM D6130 10 1 <1	рН	Scale 0-14	ASTM D1287		7.80	7.99	8.08
Percentage Glycol % ASTM D3321 50.7 49.4 49.4 Freezing Point °F ASTM D3321 -35 -33 -33 Total Dissolved Solids 376.0 347.5 325.0 Carboxylate fail fail fail pass CORROSION INHBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 8 11 14 Phosphorus ppm ASTM D6130 0 12 4 Boron ppm ASTM D6130 0 12 4 Molybdenum ppm ASTM D6130 1 <1 1 Iron ppm ASTM D6130 >15 0 1 <1 Iron ppm ASTM D6130 >10 <1 <1 <1 Lead ppm ASTM D6130 >10 <1 <1 <1 Zinc ppm ASTM D6130 >10 <1	Nitrites	ppm	AP-053:2009		600	524	748
Freezing Point °F ASTM D3321 -35 -33 -33 Total Dissolved Solids 376.0 347.5 325.0 Carboxylate fail fail pass CORROSION INH/BITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 8 11 14 Phosphorus ppm ASTM D6130 4 2 0 Boron ppm ASTM D6130 0 12 4 Molybdenum ppm ASTM D6130 0 12 4 Molybdenum ppm ASTM D6130 1 <1 1058 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130<>10 1 <1 <1 Aluminum ppm ASTM D6130<>10 <1 1 <1 Copper ppm ASTM D6130<>10 <1 1 <1 Lead	Reserve Alkalinity	Scale 0-20	*ASTM D1121				
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CORROSION INHIBITORSmethodlimit/basecurrenthistory1history2SiliconppmASTM D613081114PhosphorusppmASTM D61300124BoronppmASTM D61300124MolybdenumppmASTM D61306825321058CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>1501<1AluminumppmASTM D6130>101<1<1CopperppmASTM D6130>10<11<1LeadppmASTM D6130>10<11<1IronppmASTM D6130>10<11<1LeadppmASTM D6130>10<11<1ZincppmASTM D6130>10<11<1ZincppmASTM D6130>10<11<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613019153131CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130253714SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61305413	Total Dissolved Solids				376.0	347.5	325.0
Silicon ppm ASTM D6130 8 11 14 Phosphorus ppm ASTM D6130 4 2 0 Boron ppm ASTM D6130 0 12 4 Molybdenum ppm ASTM D6130 0 12 4 Molybdenum ppm ASTM D6130 682 532 1058 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130 >15 0 1 <1 Aluminum ppm ASTM D6130 >10 1 <1 <1 Copper ppm ASTM D6130 >10 <1 1 <1 Lead ppm ASTM D6130 >10 <1	Carboxylate				fail	fail	pass
Phosphorus ppm ASTM D6130 4 2 0 Boron ppm ASTM D6130 0 12 4 Molybdenum ppm ASTM D6130 0 12 4 Molybdenum ppm ASTM D6130 682 532 1058 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130<>15 0 1 <1 <1 Aluminum ppm ASTM D6130<>10 1 <1 <1 <1 Copper 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	CORROSION INH	IBITORS	method	limit/base	current	history1	history2
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MolybdenumppmASTM D61306825321058CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>1501<1AluminumppmASTM D6130>101<1<1CopperppmASTM D6130>10<11<1LeadppmASTM D6130>10<11<1LeadppmASTM D6130>10<11<1ZincppmASTM D6130>10<11<1ZincppmASTM D6130>10<11<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D6130191531CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130253714SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61305413	Phosphorus	ppm	ASTM D6130		4	2	0
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Iron ppm ASTM D6130<>15 0 1 <1	Molybdenum	ppm	ASTM D6130		682	532	1058
Aluminum ppm ASTM D6130 >10 1 <1	CORROSION		method	limit/base	current	history1	history2
Copper ppm ASTM D6130 >10 <1	Iron	ppm	ASTM D6130	>15	0	1	<1
Lead ppm ASTM D6130 >10 <1	Aluminum	ppm	ASTM D6130	>10	1	<1	<1
TimppmASTM D6130>10<1	Copper	ppm	ASTM D6130	>10	<1	1	<1
ZincppmASTM D613002<1	Lead	ppm	ASTM D6130	>10	<1	1	<1
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Sodium ppm ASTM D6130 4196 3394 4939 Potassium ppm ASTM D6130 25 37 14 SCALE POTENTIAL method limit/base current history1 history2 Calcium ppm ASTM D6130 5 4 13	Chlorine	ppm	ASTM D6130		19	15	31
PotassiumppmASTM D6130253714SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61305413	CARRIER SALTS		method	limit/base	current	history1	history2
SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61305413	Sodium	ppm	ASTM D6130		4196	3394	4939
Calcium ppm ASTM D6130 5 4 13	Potassium		ASTM D6130		25	37	14
	SCALE POTENTI	AL	method	limit/base	current	history1	history2
	Calcium	ppm	ASTM D6130		5		13
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COOLANT REPORT







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

Report Id: SHEWIC [WUSCAR] 06140450 (Generated: 04/10/2024 12:56:51) Rev: 1

Certificate 12367

Submitted By: GARRETT ADAMS

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