

COOLANT REPORT

Sample Rating Trend



NORMAL

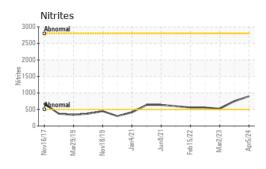


45.40L [COLORADO^443^EG - LOADER] Coolant EXTENDED LIFE COOLANT (--- GAL)

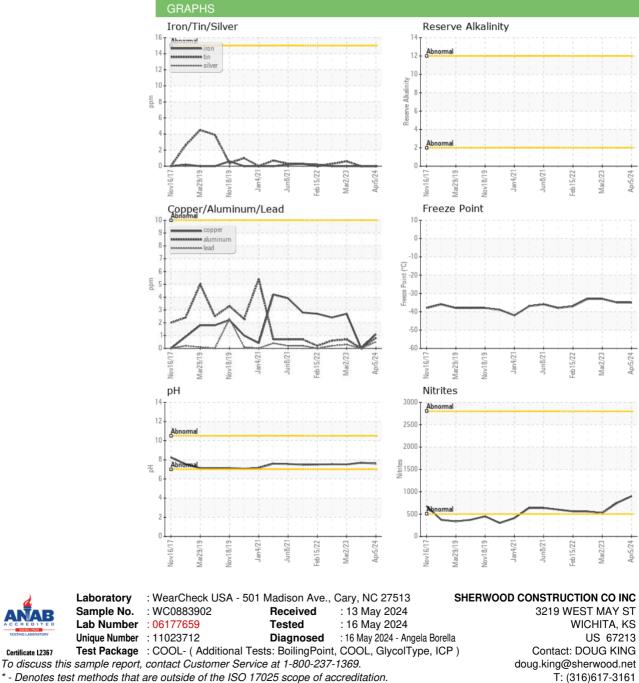
Recommendation Sample Number Client Into WC0883902 WC0859568 WC070517 No concretive action is recommended at this line Image Date Client Into 05,472024 10 Cut 2023 02 Mar 2023 Machine Age hrs Client Into 9041 8634 7871 Minetal levels are normal indicating no corrests Image Date Client Into 9041 8634 7871 Colland configence Client Into 9041 8634 7871 001 Change Not Changel N	DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
The fluid is suitable for further service. Machine Age hrs Client Info 9041 8634 7871 Survision Numetal levels are normal indicating no correstion No Changed Client Info Not Changed Not Changed <th>Recommendation</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Recommendation							
Corrosion Northe rule Solar						•		
All meta levels are normal indicating no corrosion in the cooling system. Oil Changed Client Info Not Changed Not Chang		Ũ						
n the cooling system. Sample Status NORMAL NORMAL NORMAL NORMAL Contaminants There is no indication of any contamination in the coolant. Imilibase current History1 History2 Colount Condition Tartoxylate test failed. Glycol and nitrite levels are cooptable limits. 1.068		-	hrs					
Contaminants Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination in the oblant. Physicical test and dication of any contamination of any contaminating dicating dication of any contaminating dication of		-		Client Info		•	Ű	0
There is no indication of any contamination in the colant. PHYSICAL TEST RESULTS method Imitbase current Insidory1 Insidory2 Colonat Condition Carbon Condition FT-IR	• •	Sample Status				NORMAL	NORMAL	NORMAL
Specific Gravity NSTM D1288 1.068 1.067 proposition Corputate test failed. Glycol and nitrite levels are corputate. The pH level of this fluid is within the corputate. The pH level of this fluid is within the corputate limits. Specific Gravity NSTM D1287 7.60 7.69 7.52 Nitrites ppm APG3209 900 748 524 Reserve Alkalinity Scie00 %6 ASTM D3321 Percentage Glycol % ASTM D3321 -35 -33 -33 Total Dissolved Solids CORROSION INHIBITORS method imit/base current history1 history2 Silicon ppm ASTM D6130 7 -1 32 Phosphorus ppm ASTM D6130 7 -1 32 Phosphorus ppm ASTM D6130 7 -1 32 CORROSION method imit/base current history1 history2 Silicon ppm ASTM D6130 <td< th=""><th></th><th>PHYSICAL TEST F</th><th>RESULTS</th><th>s method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>		PHYSICAL TEST F	RESULTS	s method	limit/base	current	history1	history2
arboxylate test failed. Glycol and nitrite levels are cceptable itmits. pH Scale 14 ASTM D1287 7.60 7.69 7.52 Nitrites ppm AP.053209 900 748 524 Reserve Alkality Scale 20 VSTM D1121	oolant.	Glycol Type		FT-IR				
ccceptable The pH level of this fluid is within the cceptable limits. pm AP-053:2009 900 748 524 Reserve Alkalinity Scie V20 'ASTM D121 Percentage Glycol % ASTM D321 50.3 50.4 49.8 Freezing Point 'F ASTM D321 -366.5 365.0 336.0 Carboxylate fail fail pass Silicon ppm ASTM D6130 7 <1 32 0 Boron ppm ASTM D6130 7 <1 32 0 Molybdenum ppm ASTM D6130 7 <1 32 0 CORROSION ppm ASTM D6130 0 0 0 0 Iron ppm ASTM D6130 10 1 0 3 Lead ppm ASTM D6130 10 1 0 1 Iron ppm ASTM D6130 10 0	oolant Condition	Specific Gravity				1.068	1.068	1.067
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Percentage Giycol % ASTM D3321 50.3 50.4 49.8 Freezing Point *F ASTM D3321 -35 -35 -33 Total Dissolved Solids 366.5 366.5 365.0 336.0 Carboxylate fail fail fail pass CORROSION INHIBITORS method imit/base current history1 Silicon ppm ASTM D6130 7 <1 32 Phosphorus ppm ASTM D6130 7 <1 32 Phosphorus ppm ASTM D6130 7 <1 32 ORROSION ppm ASTM D6130 0 0 0 Molybdenum ppm ASTM D6130 0 0 0 Iron ppm ASTM D6130 >10 <1 0 3 Lead ppm ASTM D6130 >10 0 <1 22 CONTAMINANTS method limit/base current history1 history2 Colorine ppm ASTM D6130 10 0 2		Nitrites	ppm	AP-053:2009		900	748	524
Freezing Point °F ASTM D3321 -35 -35 -36 Total Dissolved Solids 366.5 366.5 365.0 336.0 Carboxylate fail fail fail pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 7 <1 32 Phosphorus ppm ASTM D6130 7 22 0 Boron ppm ASTM D6130 0 0 0 Molybdenum ppm ASTM D6130 10 0 0 Iron ppm ASTM D6130<>15 0 0 0 Auminum ppm ASTM D6130<>10 1 0 <1 Copper ppm ASTM D6130<>10 1 0 <1 Lead ppm ASTM D6130<>10 0 0 <1 Zinc ppm ASTM D6130<>10 0 0 2 CONTAMINANTS method limit/base current history1 history2	cceptable limits.	Reserve Alkalinity						
Total Dissolved Solids366.5366.0336.0CarboxylatefailfailpassCORROSION INHIBITORSmethodlimit/basecurrenthistory1SiliconppmASTM D61307<132PhosphorusppmASTM D61307220BoronppmASTM D61300000MolybdenumppmASTM D61306926311129CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15000AluminuppmASTM D6130>10<103LeadppmASTM D6130>10<103LeadppmASTM D6130>100<11TinppmASTM D6130>100<13ZincppmASTM D6130>100<13CONTAMINANTSmethodlimit/basecurrenthistory1history2ChorineppmASTM D613010432CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D61302831561404SCALE POTENTIALmethodlimit/basecurrenthistory1history2ColaciumppmASTM D61302831561404SodiumppmASTM D61302831561404 <tr< th=""><th></th><th>•••</th><th></th><th></th><th></th><th></th><th></th><th></th></tr<>		•••						
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CORROSION INHIBITORS methodimit/basecurrenthistory1history2SiliconppmASTM D61307<132PhosphorusppmASTM D61307220BoronppmASTM D6130000MolybdenumppmASTM D61306926311129CORROSIONmethodimit/basecurrenthistory1history2IronppmASTM D6130>15000AluminumppmASTM D6130>10<103LeadppmASTM D6130>10<103LeadppmASTM D6130>100<110<1TinppmASTM D6130>10022CONTAMINANTSmethodimit/basecurrenthistory1history2ChlorineppmASTM D613010432CARRIER SALTSmethodimit/basecurrenthistory1history2SodiumppmASTM D613028315637106499PotassiumppmASTM D61302831561404SCALE POTENTILLmethodimit/basecurrenthistory1history2CalciumppmASTM D6130<1033		Total Dissolved Solids				366.5	365.0	336.0
SiliconppmASTM D61307<1		Carboxylate				fail	fail	pass
PhosphorusppmASTM D61307220BoronppmASTM D61300000MolybdenumppmASTM D61306926311129CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15000AluminumppmASTM D6130>10<10<1CopperppmASTM D6130>10<103LeadppmASTM D6130>10<10<1TinppmASTM D6130>100<12CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613010432CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D613028337106499PotassiumppmASTM D61302831561404SCALE POTENTI-Lmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130101004332CalciumppmASTM D61302831561404ScalueppmASTM D613011631404ScalueppmASTM D6130103ColumppmASTM D6130103		CORROSION INF	IIBITORS	6 method	limit/base	current	history1	history2
BoronppmASTM D6130000MolybdenumppmASTM D61306926311129CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130<>15000AluminumppmASTM D6130<>10<103CopperppmASTM D6130<>10103LeadppmASTM D6130<>10<10<1TinppmASTM D6130<>100<13ZincppmASTM D6130<>100<12CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613010432SodiumppmASTM D613028337106499PotassiumppmASTM D61302831561404SCALE POTENTILmethodlimit/basecurrenthistory1history2CalciumppmASTM D61302831563710		Silicon	ppm	ASTM D6130		7	<1	32
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CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130<>15000AluminumppmASTM D6130<>10<10<1CopperppmASTM D6130<>10103LeadppmASTM D6130<>10<10<1TinppmASTM D6130<>10<10<1ZincppmASTM D6130<>1000<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613010432CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D61302831561404SCALE POTENTI-Lmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130<103		Boron	ppm	ASTM D6130		0	0	0
IronppmASTM D6130<>15000AluminumppmASTM D6130<>10<10<1CopperppmASTM D6130<>10103LeadppmASTM D6130<>10<10<1TinppmASTM D6130<>10<10<1ZincppmASTM D6130<<1000<1ZincppmASTM D6130<10002CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D6130<10432CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130<2831561404SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130<103		Molybdenum	ppm	ASTM D6130		692	631	1129
AluminumppmASTM D6130>10<1		CORROSION		method	limit/base	current	history1	history2
CopperppmASTM D6130>10103LeadppmASTM D6130>10<10<1TinppmASTM D6130>1000<1ZincppmASTM D6130>10002CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613010432CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130455637106499PotassiumppmASTM D61302831561404SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130<103		Iron	ppm	ASTM D6130	>15	0	0	0
LeadppmASTM D6130>10<1		Aluminum	ppm	ASTM D6130	>10	<1	0	<1
TinppmASTM D6130>100<1		Copper	ppm	ASTM D6130	>10	1	0	3
ZincppmASTM D613002CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613010432CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130455637106499PotassiumppmASTM D61302831561404SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130<103		Lead	ppm	ASTM D6130	>10	<1	0	<1
CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613010432CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130455637106499PotassiumppmASTM D61302831561404SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130<103		Tin	ppm	ASTM D6130	>10	0	0	<1
ChlorineppmASTM D613010432CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130455637106499PotassiumppmASTM D61302831561404SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130<103		Zinc	ppm	ASTM D6130		0	0	2
CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130455637106499PotassiumppmASTM D61302831561404SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130<103		CONTAMINANTS	6	method	limit/base	current	history1	history2
SodiumppmASTM D6130455637106499PotassiumppmASTM D61302831561404SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130<1		Chlorine	ppm	ASTM D6130		10	4	32
PotassiumppmASTM D61302831561404SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130<1		CARRIER SALTS	8	method	limit/base	current	history1	history2
SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130<1		Sodium	ppm	ASTM D6130		4556	3710	6499
Calcium ppm ASTM D6130 <1 0 3		Potassium	ppm	ASTM D6130		283	156	1404
		SCALE POTENT	IAL	method	limit/base	current	history1	history2
		Calcium	ppm	ASTM D6130		<1	0	3
		Magnesium		ASTM D6130			0	



COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Red	Red	Red
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color			0		
Bottom					



* - 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)

Certificate 12367

Submitted By: BRANDEN JAQUIAS

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