COOLANT REPORT

OKLAHOMA/102/EG - BACKHOE LOADER

Sample Rating Trend



NORMAL

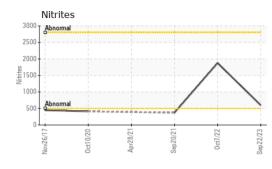
53.515L [OKLAHOMA^102^EG - BACKHOE LOADER] Component Coolant Fluid

EXTENDED LIFE COOLANT (--- GAL)

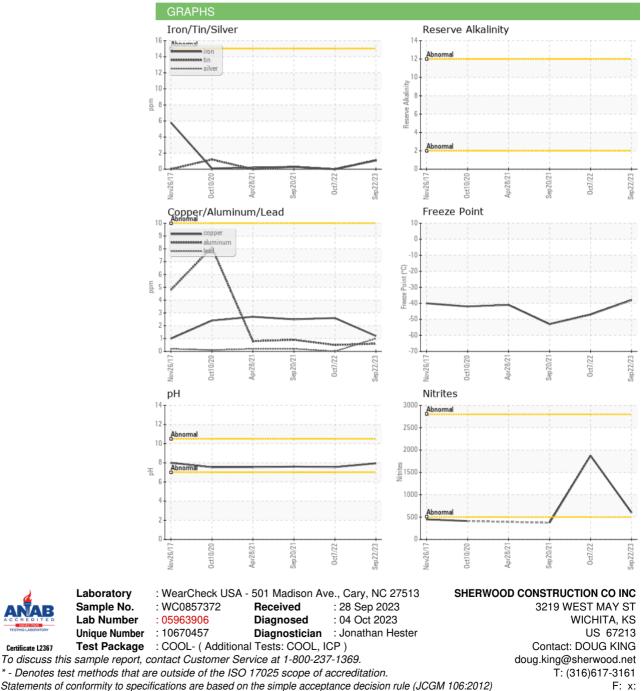
is corrective action is recommended at this time. Sample Date Client Into 22 Sep 2023 07 Oct 2022 20 Sep 2021 Machine Age hrs Client Into 6604 5615 4462 Sorrosion Ul metal levels are normal indicating no corrosion Not Change	DIAGNOSIS	SAMPLE INFORM	ΜΑΤΙΟΝ	method				history2
he fluid is suitable for further service. borrosion il metal levels are normal indicating no corrosion il metal levels are normal indicating no corrosion in the colarit. bornaminatis here is no indication of any contamination in the colant. boolant Condition araboxylate test failed. The glycol level is cceptable limits. PHYSICAL TEST RESULTS mathed limit/base curront historyl historyl Specific Gravity "ASTM D128 1.069 1.074 PHYSICAL TEST RESULTS mathed limit/base 0.074 PHYSICAL PHYSICAL TEST RESULTS mathed limit/base 0.074 PHYSICAL PHYS	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	Sample Number		Client Info		WC0857372	WC0738524	WC0622812
matchine ruge mis Cellent mid 0004 5013 4402 matchine ruge Client mid 0000 5615 1000 oli Alesolas Client info Not Changd Not Chan		Sample Date		Client Info		22 Sep 2023	07 Oct 2022	20 Sep 2021
Oil Changed Client Into Not Changd Not Changd Not Changd Sample Status Imationants Imationants <td< td=""><th>Machine Age</th><td>hrs</td><td>Client Info</td><td></td><th>6604</th><td>5615</td><td>4462</td></td<>		Machine Age	hrs	Client Info		6604	5615	4462
he cooling system. Itaminants ret is no indication of any contamination in the Jant. Joant Condition Ober Condition Ober Condition Specific Gravity PH Stabled Nitrites PpH Stabled Nitrites PH Stabled		Oil Age	hrs	Client Info		1000	5615	1000
Not and a set of indication of any contamination in the jant. PHYSICAL TEST RESULTS method Imother coursent history2 Specific Gravity 'ASTM D128 1.069 1.074 Oath Condition 'ASTM D128 1.069 1.074 propriate The glycol level is septable. The pH level of this fluid is within the septable limits. Specific Gravity 'ASTM D128 1.069 1.074 Percentage Glycol % ASTM D128 1.069 1.074 Percentage Glycol % ASTM D128 ASTM D128 1.069 1.074		Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
ere is no indication of any contamination in the olant. Specific Gravity "ASTM D128" 0.069 1.074 Specific Gravity "ASTM D128" 7.95 7.55 7.60 Nitrites ppm AP-053:2009 600 1876 372 Reserve Alkalinity Sae030 XSTM D121 Field XSTM D1231 55.4 56 Freezing Point *F ASTM D1232 51.3 55.4 56 Freezing Point *F ASTM D321 51.3 55.4 56 Freezing Point *F ASTM D321 51.3 57.0 445.0 Carboxylate 1 1 1 2 3 Phosphorus ppm ASTM D6130 10 21 23 Phosphorus ppm ASTM D6130 11 2 0 Molybdenum ppm ASTM D6130 11 3 2 CORROSION IMHEISTORS the current history1 history2 Iron ppm ASTM D6130 10 1 3 2 CORROSION Ppm ASTM D6130 10 31 3 2 CORROSION Ppm ASTM D6130 10 41 3 CORROSION Ppm ASTM D6130 10 1 0 CORROSION Ppm ASTM D6130 310 1 CORROSION Ppm ASTM D6130 310	the cooling system.	Sample Status				NORMAL	NORMAL	NORMAL
pH Scale 0.41 ASTM D1287 7.95 7.55 7.60 arboxylate test failed. The glycol level is ceaptable. The pH level of this fluid is within the ceptable limits. pm AP-0532000 600 1876 372 Reserve Alkalinity ceaptable limits. Scale 0.41 ASTM D321		PHYSICAL TEST F	RESULTS	6 method	limit/base	current	history1	history2
arboxylate test failed. The glycol level is coeptable limits. Nitrites pm AP-053-2009 600 1876 372 Reserve Alkalinity Size 620 'ASTM D132 Percentage Glycol % ASTM D1321 51.3 55.4 56 Percentage Glycol % ASTM D3321 538 4.77 -53 Total Dissolved Solids Carboxylate fail pass fail Solicon ppm ASTM D6130 10 21 23 Phosphorus ppm ASTM D6130 10 21 23 Phosphorus ppm ASTM D6130 11 2 0 Molyddenum ppm ASTM D6130 11 2 0 Molyddenum ppm ASTM D6130 11 3 2 2 Iron ppm ASTM D6130 10 1 3 2 2 Iron ppm ASTM D6130 10 1	olant.	Specific Gravity		*ASTM D1298		1.069	1.074	
Control Integration Reserve Alkalinity Scale 020 ASTM D1121 Percentage Glycol % ASTM D3321 51.3 55.4 56.3 Freezing Point °F ASTM D3321 51.0 375.0 445.0 Carboxylate Imit base current history1 history1 history1 Silicon ppm ASTM D6130 10 21 23 Phosphorus ppm ASTM D6130 10 21 23 Phosphorus ppm ASTM D6130 10 21 23 Phosphorus ppm ASTM D6130 11 2 0 Molybdenum ppm ASTM D6130 11 0 <1	olant Condition	рН	Scale 0-14	ASTM D1287		7.95	7.55	7.60
Percentage Glycol % ASTM D3321 51.3 55.4 56 Freezing Point °F ASTM D3321 -38 -47 -53 Total Dissolved Solids 361.0 375.0 445.0 Carboxylate 611 pass fail CORROSION INHIBITORS method imit/base current history1 history2 Silicon ppm ASTM D6130 10 21 23 Phosphorus ppm ASTM D6130 11 2 0 Molybdenum ppm ASTM D6130 11 2 0 Molybdenum ppm ASTM D6130 15 1 0 <1	rboxylate test failed. The glycol level is	Nitrites	ppm	AP-053:2009		600	1876	372
Filedentage of year *a ASTM D024 51.3 50.4*		Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids 361.0 375.0 445.0 Carboxylate Image: Solids Image: Soli	eptable limits.	Percentage Glycol	%	ASTM D3321		51.3	55.4	56
CarboxylateImitfailpassfailCORROSION INHIBITORSmethodlimit/basecurrenthistory1history2SiliconppmASTM D6130102123PhosphorusppmASTM D61301120BoronppmASTM D61301120MolybdenumppmASTM D61301120CORROSIONmethodlimit/basecurrenthistory2IronppmASTM D6130>10<1		Freezing Point	°F	ASTM D3321		-38	-47	-53
CORROSION INHIBITORS methodimit/basecurrenthistory1history2SiliconppmASTM D6130102123PhosphorusppmASTM D61301120BoronppmASTM D61301120MolybdenumppmASTM D61301120MolybdenumppmASTM D613055812001106CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>1510<1		Total Dissolved Solids				361.0	375.0	445.0
SiliconppmASTM D6130102123PhosphorusppmASTM D6130<1		Carboxylate				fail	pass	fail
Phosphorus ppm ASTM D6130 <1 0 <1 Boron ppm ASTM D6130 11 2 0 Molybdenum ppm ASTM D6130 558 1200 1106 CORROSION method imit/base current history1 history2 Iron ppm ASTM D6130 >15 1 0 <1 Aluminum ppm ASTM D6130 >10 <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 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1		CORROSION INH	IBITORS	S method	limit/base	current	history1	history2
Phosphorus ppm ASTM D6130 <1 0 <1 Boron ppm ASTM D6130 11 2 0 Molybdenum ppm ASTM D6130 558 1200 1106 CORROSION method limit/base current history1 history2 Iron ppm ASTM D6130<>15 1 0 <1 Aluminum ppm ASTM D6130<>10 <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 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 </td <td></td> <th>Silicon</th> <td>ppm</td> <td>ASTM D6130</td> <td></td> <th>10</th> <td>21</td> <td>23</td>		Silicon	ppm	ASTM D6130		10	21	23
MolybdenumppmASTM D61305581 2001106CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130<>1510<1		Phosphorus		ASTM D6130				
MolybdenumppmASTM D613055812001106CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130<>1510<1		Boron	ppm	ASTM D6130		11	2	0
IronppmASTM D6130<>1510<1AluminumppmASTM D6130<>10<1		Molybdenum		ASTM D6130		558	1200	1106
AluminumppmASTM D6130>10<1<1<1CopperppmASTM D6130>1010<1		CORROSION		method	limit/base	current	history1	history2
CopperppmASTM D6130>10132LeadppmASTM D6130>1010<1		Iron	ppm	ASTM D6130	>15	1	0	<1
CopperppmASTM D6130>10132LeadppmASTM D6130>1010<1		Aluminum	ppm	ASTM D6130	>10	<1	<1	<1
LeadppmASTM D6130>1010<1TinppmASTM D6130>1010<1		Copper	ppm			1	3	2
TinppmASTM D6130>1010<1ZincppmASTM D6130<<1<12CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D6130181227CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130356150003781PotassiumppmASTM D6130396022SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130335				ASTM D6130	>10	1		<1
ZincppmASTM D6130<1<12CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D6130181227CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130356150003781PotassiumppmASTM D6130396022SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130335						1		<1
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SodiumppmASTM D6130 3561 50003781PotassiumppmASTM D6130 39 6022SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130 3 35		Chlorine	ppm	ASTM D6130		18	12	27
PotassiumppmASTM D6130 39 6022SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130 3 35		CARRIER SALTS	;	method	limit/base	current	history1	history2
PotassiumppmASTM D6130 39 6022SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130 3 35		Sodium	ppm	ASTM D6130		3561	5000	3781
SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130335		Potassium						
Calcium ppm ASTM D6130 3 3 5					limit/base	_		history2
				ASTM D6130		3	3	5
Magneeum nom ASIM 06130 2 10 12		Magnesium	ppm	ASTM D6130		2	10	12



COOLANT REPORT







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

Submitted By: RUSTY RILEY

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