

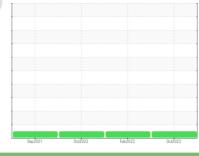
COOLANT REPORT

Sample Rating Trend





KANSAS/15 53.40L [KANSAS^15]



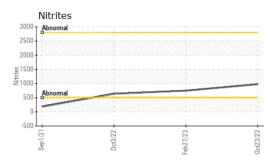


Fluid EXTENDED LIFE COOLANT (18 QTS)

Sample Number Client Info WC0485282 WC0741728 WC0673599 The tail is usuable for lurther service. Sample Date Client Info 92 697 92 All metal levels are normal indicating no corsisin in the cooling system. Northand Sample Status Northand Northand Northan	DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Corrosion Machine Age hrs Client Info 992 697 92 All netal levels are normal indicating no corrosion in the cooling system. Normal NorMAL NorMAL NorMAL NorMAL Contaminants There is no indication of any contamination in the cooling system. NorMAL NorMAL NorMAL NorMAL NorMAL NorMAL NorMAL NorMAL Coland Condition Giocan at intrine levels are acceptable. The pH level of this fluid is within the acceptable limits. Sample Status 1.078 1.070 <th>Recommendation</th> <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>WC0862622</th> <th>WC0741728</th> <th>WC0673596</th>	Recommendation	Sample Number		Client Info		WC0862622	WC0741728	WC0673596
All metal levels are normal indicating no corrosion in the cooling system. Oil Age hrs Client Info 992 697 92 Contaminants Not Changd Not Changd<	The fluid is suitable for further service.	Sample Date		Client Info		23 Oct 2023	27 Feb 2023	03 Oct 2022
In the cooling system. In the cooling system. Not Changed Not	Corrosion	Machine Age	hrs	Client Info		992	697	92
Sample Status NORMAL NORMAL NORMAL There is no indication of any contamination in toolant. PHYSICAL TEST RESULTS method limit/base current history1 history2 Giycol and nifrite levels are acceptable limits. Specific Gravity 'NSTM Di28a 1.078 1.070 1.070 PHYSICAL TEST RESULTS method limit/base current history1 f.630 Specific Gravity 'NSTM Di28a 7.58 7.59 7.67 Nitrites ppm AP053 2009 976 748 636 Reserve Alkalinity Sae014 SMTM Di211 Percentage Giycol % ASTM Di321 58.2 52.3 52.0 Freezing Point "F ASTM Di321 58.2 52.3 52.0 Total Dissolved Solids	All metal levels are normal indicating no corrosion	Oil Age	hrs	Client Info		992	697	92
PHYSICAL TEST RESULTS method limit/base ourrent history1 history2 Coolant Condition Giycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits. Specific Gravity 'ASTM D1238 1.078 1.070 1.070 PH Seed/644 ASTM D1237 7.58 7.59 7.67 Nitrites pm AP-053.2009 976 748 6.36 PH Seed/644 ASTM D1237 Percentage Glycol % ASTM D1321 Percentage Glycol % ASTM D1321 Percentage Glycol % ASTM D1321 Percentage Glycol % ASTM D1321 Percentage Glycol % ASTM D13321 Percentage Glycol % ASTM D13321 <t< td=""><th>in the cooling system.</th><td>Oil Changed</td><td></td><td>Client Info</td><td></td><th>Not Changd</th><td>Not Changd</td><td>Not Changd</td></t<>	in the cooling system.	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Coolant. PHYSICAL TEST RESOLTS method inith/base current inito/y1 fils/0/22 Specific Gravity 'ASTM D128' 1.078 1.070 1.070 Gold and initible levels are acceptable. The pH SadeU4 ASTM D1287 7.58 7.59 7.67 Nitrites ppm AP-055.2009 976 748 636 Reserve Alkalinity SadeU2 ASTM D1287 Picerentage Glycol % ASTM D0321 -54 400 -400 Total Dissolved Solids 446.5 347.0 377.5 Carboxylate 446.5 347.0 377.5 Carboxylate 0 fail fail fail fail gaas CORROSION INHEBITORS method imit/base current history1 history2 Silicon ppm ASTM D6130 16 4 4 Phosphorus ppm ASTM D6130 16 4 4 Molybdenum ppm ASTM D6130	Contaminants	Sample Status				NORMAL	NORMAL	NORMAL
Glycol and nitrite levels are acceptable. The pH Sciel 04/4 ASTM D1227 7.58 7.59 7.67 Beserve Alkalinity Sciel 04/4 ASTM D1227 7.58 7.48 636 Percentage Glycol % ASTM D1227 -		PHYSICAL TEST I	RESULTS	s method	limit/base	current	history1	history2
Nitrites pm AP-053-2009 976 748 636 Reserve Alkalinity State 020 XSTM D1121	Coolant Condition	Specific Gravity		*ASTM D1298		1.078	1.070	1.070
Initial is within the acceptable limits. Nitries pp A/S1M D12 Percentage Glycol % ASTM D112	Glycol and nitrite levels are acceptable. The pH	pH	Scale 0-14	ASTM D1287		7.58	7.59	7.67
Percentage Glycol % ASTM D3321 58.2 52.3 52.0 Freezing Point % ASTM D3321 -54 -40 -40 Total Dissolved Solids 446.5 347.0 377.5 Carboxylate Imit/base current fail fail pass CORROSION INHEITORS method 6 <1		Nitrites	ppm	AP-053:2009		976	748	636
Freezing Point °F ASTM D3321 -54 -40 -40 Total Dissolved Solids 446.5 347.0 377.5 Carboxylate i i fail fail pass CORROSION INHIBITORS method limit/base current history1 history2 Silicon ppm ASTM D6130 2 24 14 Phosphorus ppm ASTM D6130 6 <1		Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Total Dissolved Solids446.5347.0377.5CarboxylateImitImit/basecurrentHistory1CORROSION INHIBITORSmethodImit/basecurrentHistory1SiliconppmASTM D613022414PhosphorusppmASTM D61306<1		Percentage Glycol	%	ASTM D3321		58.2	52.3	52.0
CarboxylatefailfailpassCORROSION INHIBITORSmethodlimit/basecurrenthistory1history2SiliconpmASTM D613022414PhosphorusppmASTM D61306<10BoronppmASTM D61300164MolybdenumpmASTM D61300164MolybdenumpmASTM D61301083330CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<12<1AluminumppmASTM D6130>1092118CopperppmASTM D6130>10<1<11LeadppmASTM D6130>101<1<1TinppmASTM D6130>10<12<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613011400CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130382762614809PotassiumppmASTM D6130312838488SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130382755		Freezing Point	°F	ASTM D3321		-54	-40	-40
CORROSION INHIBITORSmethodlimit/basecurrenthistory1history2SiliconppmASTM D613022414PhosphorusppmASTM D61306-10BoronppmASTM D61300164MolybdenumppmASTM D61301083330CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<12<1AluminumppmASTM D6130>1092118CopperppmASTM D6130>1092118CopperppmASTM D6130>1001<1LeadppmASTM D6130>1001<1TinppmASTM D6130>10<12<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613011400CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130382762614809PotassiumppmASTM D6130312838488SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppASTM D6130388755		Total Dissolved Solids	i			446.5	347.0	377.5
SiliconppmASTM D613022414PhosphorusppmASTM D61306<10BoronppmASTM D61300164MolybdenumppmASTM D613001083330CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<12<118CopperppmASTM D6130>1092118CopperppmASTM D6130>10<121LeadppmASTM D6130>10<1<1<1TinppmASTM D6130>10<1<1<1ZincppmASTM D6130>10<12<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D6130382762614809PotassiumppmASTM D6130312838488SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D613038875		Carboxylate				fail	fail	pass
Phosphorus Boronppm pmASTM D61306<1		CORROSION INH	IIBITORS	6 method	limit/base	current	history1	history2
Boron MolybdenumppmASTM D61300164MolybdenumppmASTM D61301083330CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<1		Silicon	ppm	ASTM D6130		2	24	14
MolybdenumppmASTM D61301083330CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<12<1AluminumppmASTM D6130>1092118CopperppmASTM D6130>10<121LeadppmASTM D6130>10<121TinppmASTM D6130>10<121ZincppmASTM D6130>10<12<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613011400CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130382762614809PotassiumppmASTM D6130312838488SCALE POTENTI/Lmethodlimit/basecurrenthistory1history2CalciumppmASTM D613038875		Phosphorus	ppm	ASTM D6130		6	<1	0
CORROSIONmethodlimit/basecurrenthistory1history2IronppmASTM D6130>15<12<1AluminumppmASTM D6130>1092118CopperppmASTM D6130>10<121LeadppmASTM D6130>1001<1TinppmASTM D6130>10<120ZincppmASTM D6130>10<12<1CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613011400CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130382762614809PotassiumppmASTM D6130312838488SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D613038875		Boron	ppm	ASTM D6130		0	16	4
IronppmASTM D6130<>15<12<1AluminumppmASTM D6130<>1092118CopperppmASTM D6130<>10<1		Molybdenum	ppm	ASTM D6130		108	33	30
AluminumppmASTM D6130>1092118CopperppmASTM D6130>10<1		CORROSION		method	limit/base	current	history1	history2
CopperppmASTM D6130>10<1		Iron	ppm	ASTM D6130	>15	<1	2	<1
LeadppmASTM D6130>1001<1TinppmASTM D6130>10<1		Aluminum	ppm	ASTM D6130	>10	9	21	18
TinppmASTM D6130>10<1		Copper	ppm	ASTM D6130	>10	<1	2	1
ZincppmASTM D613012<1		Lead	ppm	ASTM D6130	>10	0	1	<1
CONTAMINANTSmethodlimit/basecurrenthistory1history2ChlorineppmASTM D613011400CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130382762614809PotassiumppmASTM D6130312838488SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61303875		Tin	ppm	ASTM D6130	>10	<1	2	0
ChlorineppmASTM D613011400CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130382762614809PotassiumppmASTM D6130312838488SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61303875		Zinc	ppm	ASTM D6130		1	2	<1
CARRIER SALTSmethodlimit/basecurrenthistory1history2SodiumppmASTM D6130382762614809PotassiumppmASTM D6130312838488SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61303875		CONTAMINANTS	5	method	limit/base	current	history1	history2
SodiumppmASTM D6130 3827 62614809PotassiumppmASTM D6130 312 838488SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D6130 38 75		Chlorine	ppm	ASTM D6130		11	40	0
PotassiumppmASTM D6130312838488SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61303875		CARRIER SALTS	6	method	limit/base	current	history1	history2
SCALE POTENTIALmethodlimit/basecurrenthistory1history2CalciumppmASTM D61303875		Sodium	ppm	ASTM D6130		3827	6261	4809
Calcium ppm ASTM D6130 38 7 5		Potassium	ppm	ASTM D6130		312	838	488
		SCALE POTENT	IAL	method	limit/base	current	history1	history2
		Calcium	ppm	ASTM D6130		38	7	5
		Magnesium		ASTM D6130		2		



COOLANT REPORT



	VISUAL	method	limit/base	current	history1	history2
C	Coolant Color	*Visual		Red	Red	Red
C	Coolant Appearance	*Visual	Clear	normal	normal	normal
C	Color					3596
E	Bottom					

